

=> fil reg

FILE 'REGISTRY' ENTERED AT 16:13:29 ON 14 APR 2005
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FILE 'HCAPLUS' ENTERED AT 13:06:27 ON 14 APR 2005
L1 2144 SEA ABB=ON PLU=ON NAKAI Y?/AU
L2 1030 SEA ABB=ON PLU=ON WAN H?/AU
L3 0 SEA ABB=ON PLU=ON L1 AND L2

FILE 'LREGISTRY' ENTERED AT 13:09:19 ON 14 APR 2005
L4 STR
L5 STR

FILE 'REGISTRY' ENTERED AT 13:14:12 ON 14 APR 2005
L6 STR
L7 50 SEA SSS SAM L6
D RSD
L8 STR
L9 50 SEA SSS SAM L8
L10 STR
L11 50 SEA SSS SAM L10
D RSD
D RSD 2-3
L12 STR
L13 50 SEA SSS SAM L12
D RSD
L14 STR
L15 50 SEA SSS SAM L14
D RSD
L16 STR
L17 50 SEA SSS SAM L16
D RSD
L18 STR
L19 50 SEA SSS SAM L18
D RSD
D RSD 2-3
L20 881004 SEA ABB=ON PLU=ON 16.136.1/RID
L21 261700 SEA ABB=ON PLU=ON 16.165.12/RID
L22 4663 SEA ABB=ON PLU=ON 16.213.13/RID
L23 278428 SEA ABB=ON PLU=ON 16.195.24/RID
L24 22718 SEA ABB=ON PLU=ON 16.525.10/RID
L25 117836 SEA ABB=ON PLU=ON 16.515.11/RID
L26 1472306 SEA ABB=ON PLU=ON L20 OR L21 OR L22 OR L23 OR L24
OR

L27 L25
L28 STR
L28 50 SEA SSS SAM L27
L29 SCR 1440 OR 1445 OR 1437 OR 1451 OR 1438
L30 SCR 1993
L31 50 SEA SSS SAM L27 AND L29 AND L30

FILE 'HCAPLUS' ENTERED AT 15:26:10 ON 14 APR 2005
SET SMART ON

L32 61 SEA ABB=ON PLU=ON (BLEACH? OR
BLIX?) (A) FIX? (3A) COMPOS
ITION?
L33 61 SEA ABB=ON PLU=ON L32 AND PHOTO?
L34 SEL PLU=ON L33 1- RN : 498 TERMS
L35 SEL PLU=ON L33 1- RN : 498 TERMS
L36 61 SEA ABB=ON PLU=ON L33 AND PHOTO?/SC, SX

FILE 'REGISTRY' ENTERED AT 15:30:12 ON 14 APR 2005

L37 498 SEA ABB=ON PLU=ON L35
L38 0 SEA SUB=L37 SSS SAM L27

FILE 'HCAPLUS' ENTERED AT 15:44:58 ON 14 APR 2005

L39 8674 SEA ABB=ON PLU=ON BLEACH? AND (PHOTOGRAP?/SC, SX OR
PHOTOGRAPH?)
L40 SEL PLU=ON L39 1- RN : 32041 TERMS

FILE 'REGISTRY' ENTERED AT 15:48:15 ON 14 APR 2005

L41 32039 SEA ABB=ON PLU=ON L40
L42 32039 SEA ABB=ON PLU=ON L41 OR L37
L43 33 SEA SUB=L42 SSS SAM L27
L44 679 SEA SUB=L42 SSS FUL L27
L45 1471187 SEA ABB=ON PLU=ON L26 NOT L42
L46 335 SEA ABB=ON PLU=ON L42 AND 16.136.1/RID
L47 490 SEA ABB=ON PLU=ON L42 AND 16.165.12/RID
L48 6 SEA ABB=ON PLU=ON L42 AND 16.213.13/RID
L49 191 SEA ABB=ON PLU=ON L42 AND 16.195.24/RID
L50 53 SEA ABB=ON PLU=ON L42 AND 16.525.10/RID
L51 49 SEA ABB=ON PLU=ON L42 AND 16.515.11/RID
L52 1119 SEA ABB=ON PLU=ON L46 OR L47 OR L48 OR L49 OR L50
OR

L51

FILE 'HCAPLUS' ENTERED AT 15:59:11 ON 14 APR 2005

L53 140239 SEA ABB=ON PLU=ON L52
L54 42195 SEA ABB=ON PLU=ON L44
L55 179884 SEA ABB=ON PLU=ON L53 OR L54
L56 239 SEA ABB=ON PLU=ON L55 AND (BLEACH? OR BLIX?) (A) FIX?

L57 238 SEA ABB=ON PLU=ON L56 AND PHOTO?/SC,SX
 L58 54 SEA ABB=ON PLU=ON L57 AND (COMPOSITION? OR LIQUID?
 OR SOLID? OR TABLET? OR CONCENTRAT?)
 D FHITSTR
 D FHITSTR 2-5
 SET SMART OFF

FILE 'REGISTRY' ENTERED AT 16:13:29 ON 14 APR 2005

FILE HCAPLUS

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 publications

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 strictly prohibited.

FILE LREGISTRY

LREGISTRY IS A STATIC LEARNING FILE

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

=> d que 153

L32 61 SEA FILE=HCAPLUS ABB=ON PLU=ON (BLEACH? OR
 BLIX?) (A) F
 IX? (3A) COMPOSITION?
 L33 61 SEA FILE=HCAPLUS ABB=ON PLU=ON L32 AND PHOTO?
 L35 SEL PLU=ON L33 1- RN : 498 TERMS
 L37 498 SEA FILE=REGISTRY ABB=ON PLU=ON L35
 L39 8674 SEA FILE=HCAPLUS ABB=ON PLU=ON BLEACH? AND
 (PHOTOGRAP
 ?/SC,SX OR PHOTOGRAPH?)
 L40 SEL PLU=ON L39 1- RN : 32041 TERMS

L41 32039 SEA FILE=REGISTRY ABB=ON PLU=ON L40
 L42 32039 SEA FILE=REGISTRY ABB=ON PLU=ON L41 OR L37
 L46 335 SEA FILE=REGISTRY ABB=ON PLU=ON L42 AND
 16.136.1/RID

L47 490 SEA FILE=REGISTRY ABB=ON PLU=ON L42 AND
 16.165.12/RID

L48 6 SEA FILE=REGISTRY ABB=ON PLU=ON L42 AND
 16.213.13/RID

L49 191 SEA FILE=REGISTRY ABB=ON PLU=ON L42 AND
 16.195.24/RID

L50 53 SEA FILE=REGISTRY ABB=ON PLU=ON L42 AND
 16.525.10/RID

L51 49 SEA FILE=REGISTRY ABB=ON PLU=ON L42 AND
 16.515.11/RID

L52 1119 SEA FILE=REGISTRY ABB=ON PLU=ON L46 OR L47 OR L48
 OR
 L49 OR L50 OR L51

L53 140239 SEA FILE=HCAPLUS ABB=ON PLU=ON L52

=> d que 154

L27 STR

4

N

X

G1=C X N
 1 2 3

VAR G1=O/S/N

NODE ATTRIBUTES:

NSPEC IS RC AT 2

NSPEC IS RC AT 3

NSPEC IS RC AT 4

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 4

STEREO ATTRIBUTES: NONE

L32 61 SEA FILE=HCAPLUS ABB=ON PLU=ON (BLEACH? OR
BLIX?) (A) F

IX? (3A) COMPOSITION?

L33 61 SEA FILE=HCAPLUS ABB=ON PLU=ON L32 AND PHOTO?

L35 SEL PLU=ON L33 1- RN : 498 TERMS

L37 498 SEA FILE=REGISTRY ABB=ON PLU=ON L35

L39 8674 SEA FILE=HCAPLUS ABB=ON PLU=ON BLEACH? AND
(PHOTOGRAP

?/SC, SX OR PHOTOGRAPH?)

L40 SEL PLU=ON L39 1- RN : 32041 TERMS

L41 32039 SEA FILE=REGISTRY ABB=ON PLU=ON L40

L42 32039 SEA FILE=REGISTRY ABB=ON PLU=ON L41 OR L37

L44 679 SEA FILE=REGISTRY SUB=L42 SSS FUL L27

L54 42195 SEA FILE=HCAPLUS ABB=ON PLU=ON L44

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 16:14:10 ON 14 APR 2005

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=> d 158 1-54 ibib abs hitstr hitind

L58 ANSWER 1 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:470391 HCAPLUS

DOCUMENT NUMBER: 141:31034

TITLE: Concentrated bleach-

fixer composition for silver
halide color photographic material

INVENTOR(S): Okano, Satoshi; Kawashima, Kouki

PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan

SOURCE: Eur. Pat. Appl., 51 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
-----	-----	-----	-----
-----	-----	-----	-----
EP 1426819	A2	20040609	EP 2003-257603

2003

1203

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ,
 EE, HU, SK

JP 2004184911 A2 20040702 JP 2002-354699

2002

1206

JP 2004258061 A2 20040916 JP 2003-45394

2003

0224

US 2004110102 A1 20040610 US 2003-725310

2003

1201

PRIORITY APPLN. INFO.: JP 2002-354699 A

2002

1206

JP 2003-45394 A

2003

0224

OTHER SOURCE(S): MARPAT 141:31034

AB A concentrated bleach-fixer compn

for a silver halide color photog. material is disclosed,
 comprising an aminopolycarboxylic acid iron complex and a
 thiosulfate, wherein the bleach-fixer
 composition further comprises at least one compound selected from
 a phosphate salt, polyphosphate salt, an imidazole compound and a
 diaminotriazine compound; and the aminopolycarboxylic acid iron
 complex having a Fe(II) ratio of not less than 50 mol%.

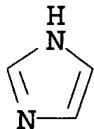
IT 288-32-4, Imidazole, uses 693-98-1,
 2-Methylimidazole

(additive; concentrated bleach-fixer
 composition for silver halide color photog. material

containing)

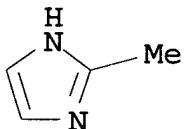
RN 288-32-4 HCAPLUS

CN 1H-Imidazole (9CI) (CA INDEX NAME)



RN 693-98-1 HCAPLUS

CN 1H-Imidazole, 2-methyl- (9CI) (CA INDEX NAME)



IC ICM G03C007-42

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST concd bleach fixer compn

silver halide color photog material

IT Color photographic processing

(bleach-fixing; concentrated
bleach-fixing composition for silver
halide color photog. material)

IT Photographic fixing

(color, bleach-fixing; concentrated
bleach-fixing composition for silver
halide color photog. material)

IT Photographic processing

(color, bleaching; concentrated bleach-
fixer composition for silver halide color photog.
material)

IT Photographic fixing

(concentrated bleach-fixing
composition for silver halide color photog. material)

IT Polyphosphoric acids

(sodium salts, additive; concentrated bleach-
fixer composition for silver halide color photog.
material containing)

IT 288-32-4, Imidazole, uses 693-98-1,

2-Methylimidazole 6484-52-2, Ammonium nitrate, uses

7601-54-9,

Trisodium phosphate 7631-99-4, Sodium nitrate, uses

7757-79-1,

Potassium nitrate, uses
 (additive; **concentrated bleach-fixer**
composition for silver halide color photog. material
 containing)
 IT 7783-18-8, Ammonium thiosulfate 10196-04-0, Ammonium sulfite
 15275-07-7 21265-50-9 85959-68-8 167256-48-6
 (concentrated bleach-fixer
composition for silver halide color photog. material
 containing)
 IT 308320-86-7 308320-87-8 308320-88-9 308320-89-0
 308320-90-3 308320-91-4 308320-92-5 308320-93-6
 308320-94-7 308320-95-8 308320-96-9 308320-97-0
 308320-98-1 308321-00-8 308321-01-9 308321-02-0
 308321-03-1
 (diaminotriazine compound; **concentrated bleach-**
fixer composition for silver halide color photog.
 material containing)

L58 ANSWER 2 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:180484 HCAPLUS
 DOCUMENT NUMBER: 140:225721
 TITLE: **Concentrated bleach-**
fixing composition for color
 photographic film and processing method
 INVENTOR(S): Okano, Masaru
 PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	----	-----	-----
	-----	-----	-----	-----
	JP 2004070198	A2	20040304	JP 2002-232568

2002

0809

PRIORITY APPLN. INFO.: JP 2002-232568

2002

0809

AB In the one-constituted **concentrated** photog. **bleach-fixing composition** containing Fe (III) complex salt and fixing agent, the Fe complex salt is coated with a coating agent and exists at non-uniform state. The **concentrated bleach-fixing composition** is directly applied to a **bleach-fixing** vessel of the automatic photog. developing apparatus. The **composition** shows good storage stability and shows good **bleach fixing** property.

IT 9003-39-8, Kollidon K 30
(coating agent; photog. **bleach fixing** agent containing coated iron complex salt)

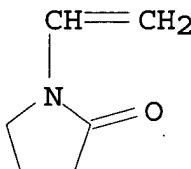
RN 9003-39-8 · HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IC ICM G03C007-42
ICS G03C005-26

CC 74-2 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

ST photog **bleach fixing** agent coated iron complex salt

IT Photographic processing
(**bleaching**, **fixing**; photog. **bleach fixing** agent containing coated iron complex salt)

IT Polyoxyalkylenes, uses
(coating agent; photog. **bleach fixing** agent containing coated iron complex salt)

IT Polyvinyl acetals
(esters with N,N-diethylglycine, AEA, coating agent; photog. **bleach fixing** agent containing coated iron complex salt)

IT 9004-38-0, CAP

(CAP, coating agent; photog. **bleach fixing**
agent containing coated iron complex salt)
 IT 9050-31-1, HPMCP-HP 55
(HPMCP-HP 55, coating agent; photog. **bleach**
fixing agent containing coated iron complex salt)
 IT 9003-39-8, Kollidon K 30 9057-02-7, PI 20 24938-16-7,
Eudragit E 100 25212-88-8, Eudragit L 30D55 25322-68-3,
Poly(ethylene glycol)
(coating agent; photog. **bleach fixing** agent
containing coated iron complex salt)
 IT 60-00-4D, EDTA, iron complex, salt 7439-89-6D, Iron, EDTA
complex 7440-09-7D, Potassium, salt with
ethylenediaminedisuccinic acid iron complex 7440-23-5D, Sodium,
salt with iron EDTA complex 14798-03-9D, Ammonium, salt with
iron EDTA complex 20846-91-7D, iron complex, salt
(photog. **bleach fixing** agent containing coated
iron complex salt)

L58 ANSWER 3 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:165392 HCAPLUS
 DOCUMENT NUMBER: 138:212724
 TITLE: **Bleach-fixing processing**
composition for silver halide color
photographic material
 INVENTOR(S): Miyazaki, Hideo
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	---	-----	-----
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	JP 2003066574	A2	20030305	JP 2001-253040

2001

0823

PRIORITY APPLN. INFO.: JP 2001-253040

2001

0823

OTHER SOURCE(S) : MARPAT 138:212724

AB A photog. **bleach-fixing composition**

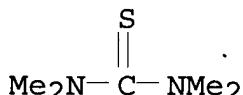
comprises a bleaching agent containing ≥ 50 mol% of 1,3-propylenediamine tetraacetic acid Fe(III) complex, and a fixing agent containing ≤ 60 mol% of X(R1S)nR2SR3Y [R1-3 = alkylene; R1-R2, R2-R3 may form ring; X, Y = H, alkyl, amino, ammonio, hydroxyl, carboxyl, sulfo, aminocarbonyl, aminosulfonyl; X-Y may form ring; n = 0-10] or R11N(R12)(C(:S)Z) [Z = -N(R13)(R14), -OR15, -SR16; R11-16 = H, alkyl, alkenyl, aralkyl, aryl, heterocyclyl; R11-R12, R13-R14, R11-R13, R11-R15, R11-R16 may form 5- to 6-membered heterocycle], and having a pH value of 3.0-8.5. The **composition** includes ≤ 30 mol% of thiosulfate in the fixing agent. The **composition** shows improved processing stability and storage stability.

IT 2782-91-4 6596-81-2 500551-92-8

(in fixing agent of photog. **bleach-fixing** processing **composition** for improving processing stability and storage stability)

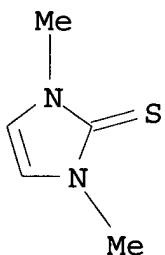
RN 2782-91-4 HCPLUS

CN Thiourea, tetramethyl- (9CI) (CA INDEX NAME)



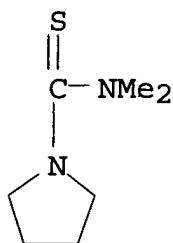
RN 6596-81-2 HCPLUS

CN 2H-Imidazole-2-thione, 1,3-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME)



RN 500551-92-8 HCPLUS

CN 1-Pyrrolidinecarbothioamide, N,N-dimethyl- (9CI) (CA INDEX NAME)



IC ICM G03C007-42
 ICS G03C007-44
 CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)
 ST photog color **bleach fixing** agent **comprn**
 propylenediaminetetraacetate ferric complex; thioether thiourea
bleaching fixing agent **comprn** photog
 color
 IT Photographic processing
 (**bleach-fixing**; **bleach-**
 fixing processing **composition** for silver halide
 color photog. material)
 IT 117198-20-6
 (ferric complex in bleaching agent of photog. **bleach-**
 fixing processing **composition** for improving
 processing stability and storage stability)
 IT 62-56-6, Thiourea, uses 2782-91-4 5244-34-8
 6596-81-2 14440-77-8 31090-12-7 92422-71-4
 94341-97-6 142019-47-4 500551-92-8
 (in fixing agent of photog. **bleach-fixing**
 processing **composition** for improving processing stability
 and storage stability)

L58 ANSWER 4 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:113331 HCAPLUS
 DOCUMENT NUMBER: 138:161024
 TITLE: Three-part **concentrated** photographic
 color developing kit and methods of use
 INVENTOR(S): Haye, Shirleyanne E.; Huston, Janet M.
 PATENT ASSIGNEE(S): Eastman Kodak Company, USA
 SOURCE: U.S., 8 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			

US 6518003 B1 20030211 US 2001-931315
2001
0816 EP 1284442 A1 20030219 EP 2002-78199
2002
0805 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ,
EE, SK
JP 2003066567 A2 20030305 JP 2002-237421
2002
0816 CN 1407401 A 20030402 CN 2002-130346
2002
0816 US 2003044733 A1 20030306 US 2002-279585
2002
1024 US 2004063045 A1 20040401 US 2003-669742
2003
0924 PRIORITY APPLN. INFO.: US 2001-931315 A
2001
0816 US 2002-279585 A1
2002
1024

AB A three-part color developing kit includes a first **concd** aqueous solution having a pH of from about 11 to about 13.5 and comprising at least 0.25 mol/L of sulfite ions, at least 2.5×10^{-5} mol/L of iodide ions, at least 0.05 mol/L of bromide ions, and at least 0.5 mol/L of a buffer having a pKa of from about 11 to about 13.5, and a second **concentrated** aqueous solution having a pH of from about 3 to about 6 and comprising at least 1 g/L of a vinyl pyrrolidone polymer, and at least 0.05 mol/L of an organic antioxidant, and a third **concentrated** aqueous solution having a pH of from about 1 to about 3 and comprising at least 0.05 mol/L of a color developing agent, and at least 0.005 mol/L of sulfite ions. The color developing kit of this invention

has a number of advantages. The various **concentrated** aqueous solns.

can be safely handled and disposed of. The resulting working strength color developing **composition** can be readily prepared by mixing the multiple solns. in a safe manner prior to or during use. These solns. also have desired stability to aerial oxidation

and long term keeping properties. Because the solns. are **concs.**, they can be provided in smaller packaged vols. for ease of transport, handling, and use, thereby reducing transportation and storage costs.

IT 9003-39-8, Poly(vinyl pyrrolidone)

(three-part **concentrated** aqueous solution for color photog. development containing)

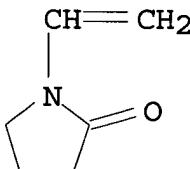
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IC ICM G03E007-413

NCL 430466000

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST concd photog color developer multiple soln
 IT Photographic processing
 (bleach-fixing; three-part concentrated
 photog. color developing kit and methods of use)
 IT Color developers
 (three-part concentrated photog. color developing kit and
 methods of use)
 IT 584-08-7, Potassium carbonate 7647-15-6, Sodium bromide, uses
 7681-11-0, Potassium iodide, uses 7681-57-4, Sodium
 metabisulfite 9003-39-8, Poly(vinyl pyrrolidone)
 10039-54-0, Hydroxylamine sulfate 10117-38-1, Potassium sulfite
 22042-96-2, Diethylenetriaminepentamethylenephosphonic acid,
 sodium salt 25646-77-9, Kodak CD-4
 (three-part concentrated aqueous solution for color photog.
 development containing)

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS

AVAILABLE

IN THE RE FORMAT

L58 ANSWER 5 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:792695 HCAPLUS
 DOCUMENT NUMBER: 137:331008
 TITLE: Image formation of silver halide photographic
 material and electric signal image
 information
 INVENTOR(S): Fukazawa, Fumie; Iwagaki, Masaru
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
JP 2002303956	A2	20021018	JP 2001-105668

2001

0404

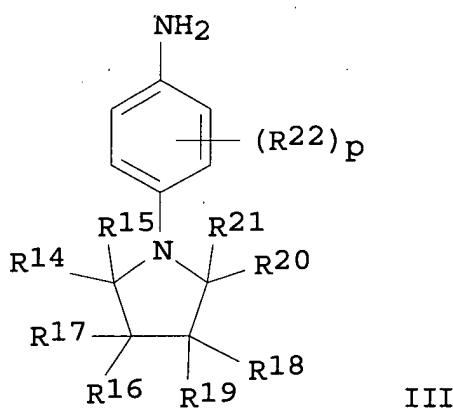
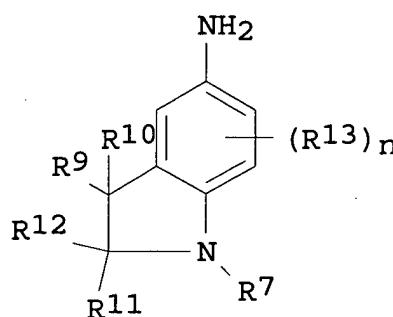
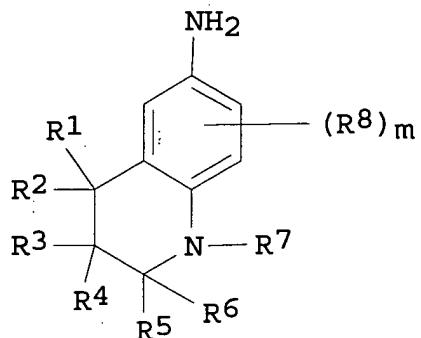
PRIORITY APPLN. INFO.: JP 2001-105668

2001

0404

OTHER SOURCE(S) :
GI

MARPAT 137:331008



- AB In the material comprising a support coated with red-, green-, blue-sensitive layers and nonphotosensitive layers, ≥ 1 of the photog. constitutive layer contains $R_1SiMe_2O(SiMe_2O)_m(SiMe_2O)_nSiMe_2R_3$ (≥ 1 of R_{1-3} = hydrophilic group, others = Me; m, n = integer). In the image formation, (1) the developing processing time may be 95-120 s,
- (2) the developer may contain ≥ 1 selected from I, II, III (R_{1-6} , R_{9-12} , R_{14-21} = H, substituent; R_7 = alkyl; R_8 , R_{13} , R_{22} = substituent; m, n = 0-3; p = 0-4), and 4 other p-phenylenediamine

derivs, (3) the developer may be replenished by a solution made from

solid processing agent, (4) the developer may contain R1NR2(OH) (R1-2 = C1-3 alkyl, alkoxy, they may form a ring), (5)

pH

of the developer may be ≥ 10.5 , (6) ≥ 1 of bleaching and **bleach-fixing** agent may be

(A₂CH₂)A₁CHNHXNHCHA₃(CH₂A₄), A(CH₂)n₁N(CH₂CO₂M₁)(CH₂CO₂M₂), BN[(CH₂)n₂CO₂M₄] [(CH₂)n₃CO₂M₅], and (A₆X₂)NHCR(X₁A₅)(CO₂M₆) [A₁-4 = CH₂OH, PO₃M₂, CO₂M; X = C₂-6 alkylene, (B₁O)_nB₂; n = 1-8; B₁-2

=

C₁-5 alkylene; n₁ = 1, 2; A = CO₂M₃, OH, NH₂, PO₃M₃2; n₂-3 = 1, 2;

2; B = H, C₁-3 alkyl; A₅-6 = CO₂M₇, PO₃M₇2 SO₃M₇, OH, mercapto; R = H, aliphatic or aromatic group; X₁-2 = divalent aliphatic or aromatic group or

linkage made of them; M, M₁-7 = H, salt-forming atom], (7) the developing process may be a reversal processing comprising 1st black-and-white development, reversal processing, color developing, bleaching and/or **bleach-fixing**, and fixing processes, or (8) the final processing bath may contain

essentially no aldehyde. The formed image is read by image sensor, converted and calculated to form elec. signal image information. The material gives high d. images with good gradation balance without stain and fog, even when developing condition changes.

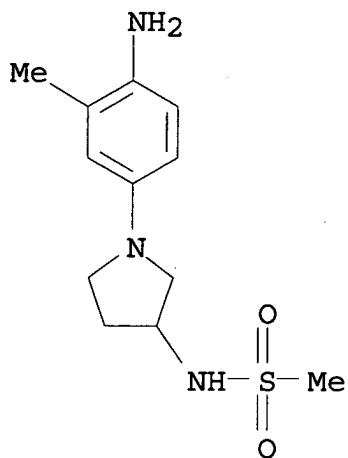
IT 143525-64-8

(photog. developer containing phenylenediamine or hydroxylamine compound)

RN 143525-64-8 HCPLUS

CN Methanesulfonamide,

N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-
(9CI) (CA INDEX NAME)



IC ICM G03C001-76

ICS G03C005-26; G03C005-50; G03C007-00; G03C007-407;
G03C007-413;

G03C007-42; G03C007-44; G03C011-00

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)

ST polysiloxane surfactant photog film development; phenylenediamine hydroxylamine developer photog; **bleach fixing** agent amine carboxylic acid; elec signal image information photog film processing

IT Photographic fixing
(photog. bleaching or **bleach-fixing** agent containing amine carboxylic acid)

IT 505-47-5 5835-29-0 78113-49-2 193207-34-0
(photog. bleaching or **bleach-fixing** agent containing amine carboxylic acid)

IT 3710-84-7, Diethylhydroxylamine 5725-96-2,
Dimethylhydroxylamine
63123-32-0 142031-47-8 **143525-64-8** 204757-11-9
209533-20-0 209533-22-2
(photog. developer containing phenylenediamine or
hydroxylamine
compound)

L58 ANSWER 6 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:656132 HCAPLUS

DOCUMENT NUMBER: 137:208310

TITLE: Photographic processing **composition**
containing triazine derivative and color
photographic imaging using it

INVENTOR(S): Nakai, Yasushi; Kimura, Keizo

PATENT ASSIGNEE(S) : Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
-----	-----	-----	-----
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JP 2002244257	A2	20020830	JP 2001-40381

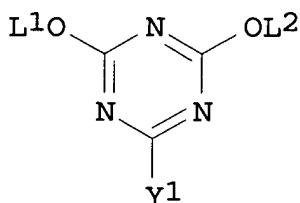
2001

0216

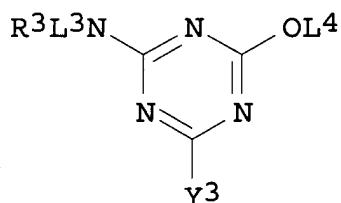
PRIORITY APPLN. INFO.: JP 2001-40381

2001

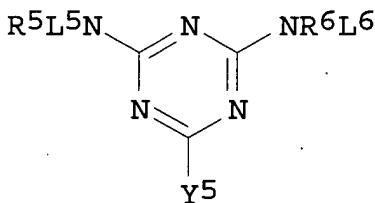
0216

OTHER SOURCE(S) : MARPAT 137:208310
GI

I



II



III

AB The composition contains triazine derivs. I, II, and/or III
 [L1-L4 = (un)substituted aryl, heterocycle, alkyl; R3, R5, R6 = H,
 (un)substituted alkyl; L1 = L2 ≠ alkyl; L3 = L4 ≠

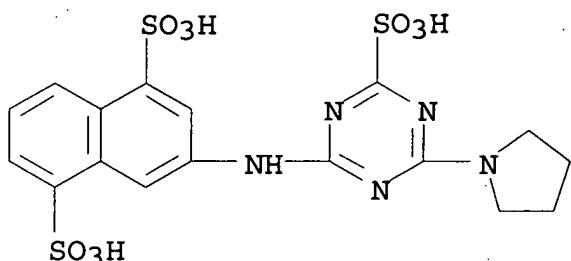
alkyl; L5 = (un)substituted aryl, heterocycle; L6 = (un)substituted alkyl; Y1, Y3, Y5 = NH₂, OH, halo, SO₃H, (un)substituted alkylamino, alkoxy]. A Ag halide color photog. material is treated with the above **composition**, preferably as color developers and/or bleaching and/or fixing agents. The **composition** shows less stain formation caused by residual sensitizing dyes and less ppts. during storage at low temperature

IT 452332-42-2

(color photog. processing **composition** containing triazine derivative with less stain and precipitate formation)

RN 452332-42-2 HCAPLUS

CN 1,5-Naphthalenedisulfonic acid, 3-[[4-(1-pyrrolidinyl)-6-sulfo-1,3,5-triazin-2-yl]amino]-, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

IC ICM G03C007-407

ICS G03C005-305; G03C005-38; G03C005-44; G03C007-42

CC 74-2 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

ST triazine pptn stain inhibitor color photog processing compn; development **bleaching fixing** agent color photog triazine

IT Color photographic processing

(**bleach-fixing**; color photog. processing

composition containing triazine derivative with less stain and precipitate formation)

IT Color developers

Color photographic processing

(color photog. processing **composition** containing triazine derivative with less stain and precipitate formation)

IT Photographic fixing

(color, **bleach-fixing**; color photog.

processing **composition** containing triazine derivative with
 less stain and precipitate formation)
 IT Photographic development
 (color; color photog. processing **composition** containing
 triazine derivative with less stain and precipitate formation)
 IT 452332-38-6 452332-39-7 452332-40-0 452332-41-1
452332-42-2 452332-43-3
 (color photog. processing **composition** containing triazine
 derivative with less stain and precipitate formation)

L58 ANSWER 7 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:503928 HCAPLUS
 DOCUMENT NUMBER: 137:85893
 TITLE: Image formation of silver halide photographic
 material and image information forming method
 INVENTOR(S): Fukazawa, Fumishige
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 59 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----	-----
	-----	-----	-----	-----
	JP 2002189276	A2	20020705	JP 2000-388782

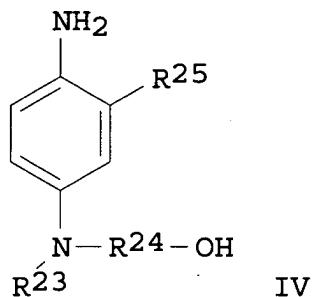
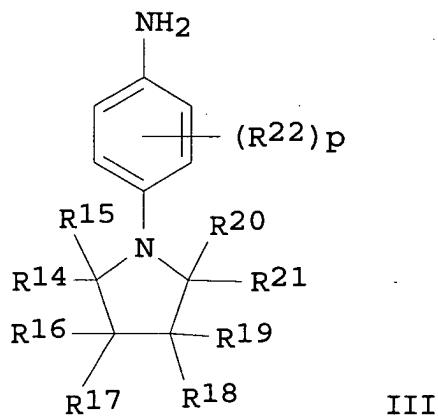
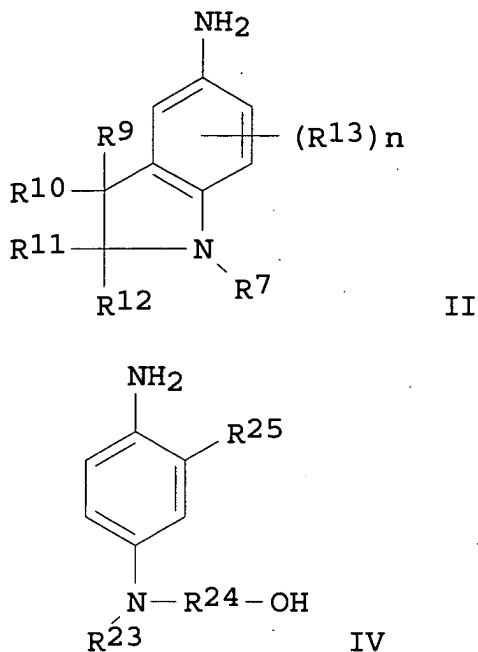
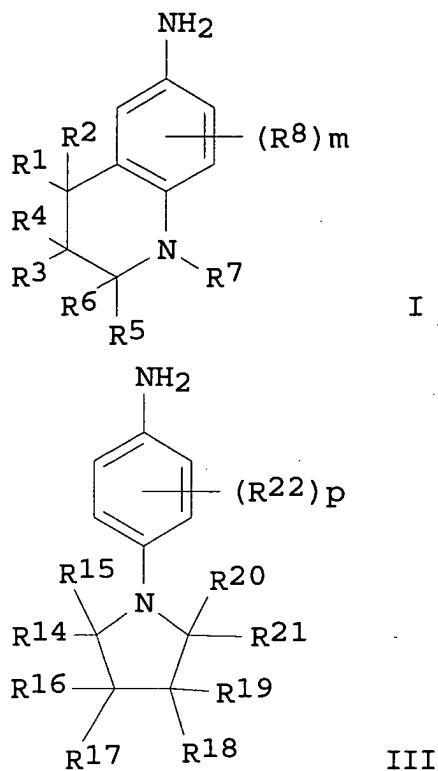
2000

1221
 PRIORITY APPLN. INFO.: JP 2000-388782

2000

1221

OTHER SOURCE(S): MARPAT 137:85893
 GI



AB The image formation by exposing and developing a photog. material comprising a support having thereon red-, green-, and blue-sensitive layers and nonphotosensitive layers is characterized by the following: (1) (A) one of the layer contains $[(RfO)_n(PFC)COY]_kLX^m$ (I; Rf = perfluoroalkyl with C1-4; n, m = 1-5; k = 1-3; PFC = perfluorocycloalkane; Y = O- or N-containing linkage; L = linkage; X = water soluble polar group containing anionic, cationic, nonionic, or amphoteric group) and (B) developing processing time is 95-120 s. The image formation is characterized by that (2) (A) and (C) the developer contains ≥ 1 selected from I, II, III, (R1-6, R9-12, R14-21= H, substituent; R7 = alkyl; R8, R13, R22 = substituent; m, n = 0-3; p = 0-4), IV [R23 = (substituted) C1-6 alkyl, hydroxyalkyl with C2-6 main chain; R24 = alkylene or hydroxyalkylene with C2-6 main chain; R25 = C1-4 linear, branched or cyclic alkyl: R23 \neq Et; R24 \neq ethylene, R25 \neq Me] and three other derivative of IV. The image

formation is characterized by that (3) (A) and (D) the developer is replenished by a replenisher prepared by using a solid processing agent; (4) (A) and (E) the developer contains R₁NR₂OH (R₁₋₂ = C₁₋₃ alkyl, alkoxy, they may form a ring). The image formation is characterized by that (5) (A) and (F) the bleaching or **bleach-fixing** solution contains ≥1 selected from A₁(A₂CH₂)CHNHXNHCHA₃(CH₂A₄) (A₁₋₄ = CH₂OH, PO₃M₂, CO₂M; M = H, atom to form salt; X = C₂₋₆ alkylene, (B₁O)_nB₂; n = 1-8; B₁₋₂ = C₁₋₅ alkylene), A(CH₂)_{n1}N(CH₂CO₂M₁)(CH₂CO₂M₂) (n₁, n₂

= 1-2; A = CO₂M₃, OH, NH₂, PO₃M₃2; M₁₋₃ = H, atom to form salt) BN[(CH₂)_{n2}CO₂M₄] [(CH₂)_{n3}CO₂M₅] (n₂, n₃ = 1-2; B = H, C₁₋₃ alkyl; M₄₋₅ = H, atom to form salt), and A₆X₂NHCR(CO₂M₆)X₁A₅ (A₅₋₆ = CO₂M₇, PO₃M₇2, SO₃M₇, OH, mercapto; M₇ = H, atom to form salt; R

= H, aliphatic or aromatic hydrocarbon; X₁₋₂ = divalent aliphatic or aromatic

group). The image formation is characterized by (6) (A) and (G) using a developer with pH ≥10.5; (7) (A) and (H) developing process is a reversal developing comprising 1st black-and-white developing, reversal processing, color developing, **bleaching, fixing or bleach-fixing** processes, (8) (A) and (I) the finishing processing tank contains essentially no aldehydes. The formed images are read by image sensor to convert the image information to elec. signal for image processing. High d. images with good gradation and storage stability without fog and processing stain are obtained.

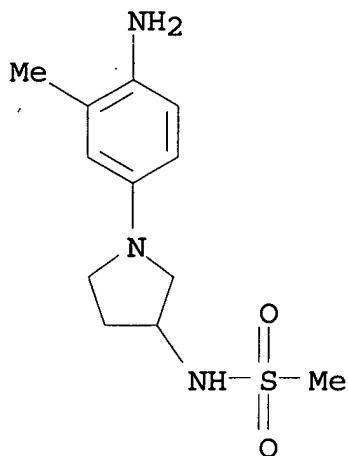
IT 143525-64-8

(photog. developer containing benzopiperidine, benzopyrrolidine, or aniline derivative)

RN 143525-64-8 HCPLUS

CN Methanesulfonamide,

N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-
(9CI) (CA INDEX NAME)



IC ICM G03C007-392
 ICS G03C001-38; G03C001-76; G03C005-26; G03C007-407;
 G03C007-413;
 G03C007-42; G03C007-44

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)

IT 63123-32-0 142031-47-8 **143525-64-8** 204757-11-9
 209533-15-3 209533-20-0 209533-22-2
 (photog. developer containing benzopiperidine,
 benzopyrrolidine, or
 aniline derivative)

L58 ANSWER 8 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:503927 HCAPLUS

DOCUMENT NUMBER: 137:85892

TITLE: Image formation of silver halide photographic
 material and formation of image information

INVENTOR(S): Fukazawa, Fumishige; Iwagaki, Masaru

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 59 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
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JP 2002189275	A2	20020705	JP 2000-388781

2000

1221

PRIORITY APPLN. INFO.:

JP 2000-388781

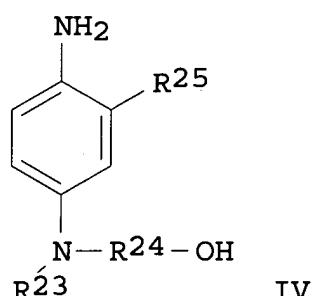
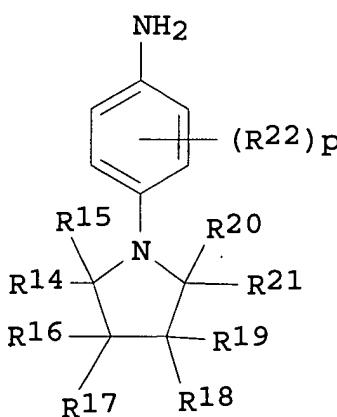
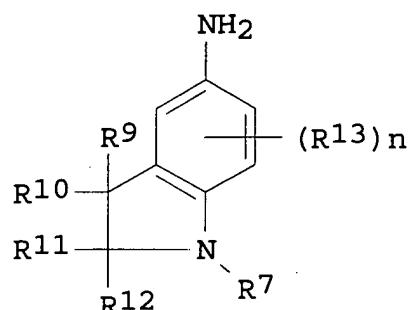
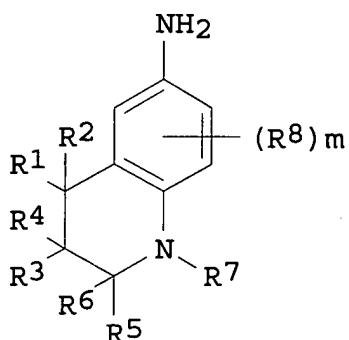
2000

1221

OTHER SOURCE(S) :

MARPAT 137:85892

GI



AB The image formation by exposing and developing a photog. material comprising a support having thereon red-, green-, and blue-sensitive layers and nonphotosensitive layers is characterized by the following: (1) (A) one of the layer contains $Rf(O\Gamma F')_nLXm$ (I; $Rf = \geq 1$ F-containing alkyl, aryl, or alkenyl;

$Rf' = \geq 1$ F-containing alkylene; L = linkage; X = OH, anionic or cationic group; n, m ≥ 1) and (B) developing processing time is 95-120 s. The image formation is characterized by that (2)

(A) and (C) the developer contains ≥ 1 selected from I, II, III, (R1-6, R9-12, R14-21 = H, substituent; R7 = alkyl; R8, R13, R22 = substituent; m, n = 0-3; p = 0-4), IV [R23 = (substituted) C1-6 alkyl, hydroxyalkyl with C2-6 main chain; R24 = alkylene or hydroxyalkylene with C2-6 main chain; R25 = C1-4 linear, branched or cyclic alkyl: R23 \neq Et; R24 \neq ethylene, R25 \neq Me] and three other derivative of IV. The image formation is characterized by that (3) (A) and (D) the developer is replenished

by a replenisher prepared by using a **solid** processing agent; (4) (A) and (E) the developer contains R1NR2OH (R1-2 = C1-3

alkyl, alkoxy, they may form a ring). The image formation is characterized by that (5) (A) and (F) the bleaching or **bleach-fixing** solution contains ≥ 1 selected from A1(A2CH2)CHNHXNHCHA3(CH2A4) (A1-4 = CH2OH, PO3M2, CO2M; M = H, atom to form salt; X = C2-6 alkylene, (B1O)nB2; n = 1-8; B1-2

= C1-5 alkylene), A(CH2)n1N(CH2CO2M1)(CH2CO2M2) (n1, n2 = 1-2; A = CO2M3, OH, NH2, PO3M32; M1-3 = H, atom to form salt)

BN[(CH2)n2CO2M4][(CH2)n2CO2M5] (n2, n3 = 1-2; B = H, C1-3 alkyl; M4-5 = H, atom to form salt), and A6X2NHCR(CO2M6)X1A5 (A5-6 = CO2M7, PO3M72, SO3M7, OH, mercapto; M7 = H, atom to form salt; R

= H, aliphatic or aromatic hydrocarbon; X1-2 = divalent aliphatic or aromatic

group). The image formation is characterized by (6) (A) and (G) using a developer with pH ≥ 10.5 ; (7) (A) and (H) developing process is a reversal developing comprising 1st black-and-white developing, reversal processing, color developing, **bleaching, fixing or bleach-fixing** processes, (8) (A) and (I) the finishing processing tank contains essentially no aldehydes. The formed images are read by image sensor to convert the image information to elec. signal for image processing. High d. images with good gradation and storage stability without fog and processing stain are obtained.

IT 143525-64-8

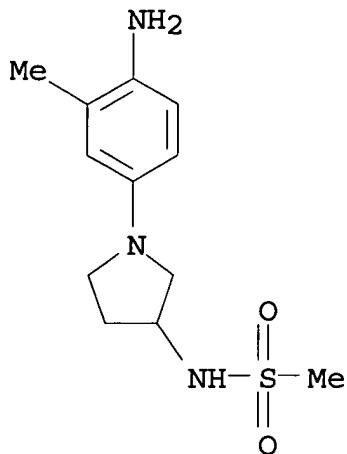
(photog. developer containing benzopiperidine, benzopyrrolidine, or aniline derivative)

RN 143525-64-8 HCPLUS

CN Methanesulfonamide,

N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-

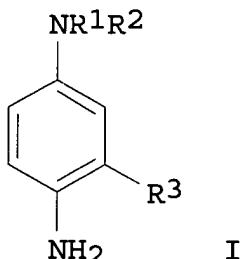
(9CI) (CA INDEX NAME)



IC ICM G03C007-392
 ICS G03C001-38; G03C001-76; G03C005-26; G03C007-407;
 G03C007-413;
 G03C007-42; G03C007-44
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 IT 63123-32-0 142031-47-8 143525-64-8 204757-11-9
 209533-15-3 209533-20-0 209533-22-2
 (photog. developer containing benzopiperidine,
 benzopyrrolidine, or
 aniline derivative)

L58 ANSWER 9 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:313322 HCPLUS
 DOCUMENT NUMBER: 136:348326
 TITLE: Silver halide color photographic material and
 methods for treatment of the material, for
 image formation, and for formation of color
 proof
 INVENTOR(S): Takahashi, Osamu; Yoneyama, Hiroyuki;
 Shimada,
 Yasuhiro
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 92 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE				
-----	-----	-----	-----	-----
-----	JP 2002122969	A2	20020426	JP 2000-315963
2000				
1016				
PRIORITY APPLN. INFO.:				JP 2000-315963
2000				
1016				
OTHER SOURCE(S) :		MARPAT 136:348326		
GI				



AB The photog. material involves a cyan coupler-containing Ag halide emulsion layer, a magenta coupler-containing Ag halide emulsion layer, and a yellow coupler-containing Ag halide emulsion layer on a support, which satisfies equations regarding wavelength corresponding to absorbance and maximum absorbance in spectrophotometry curve of the material after exposure and development using aminoanilines I [R1, R2 = (substituted) alkyl; R3 = substituent] as a main developer. The material after exposure is **bleach-fixed** with a liquid containing 1 + 10-2-2 mol bromide ion and/or 5 + 10-4-5 + 10-2 mol iodide ion. The material

is scan for ≤ 103 s for exposure and developed. The color proof is manufactured by exposure and development of the above material

according to color-separated yellow image information, magenta image

information, cyan image information, and black image information.

The process is suitable for manufacture of so-called direct digital

color proof.

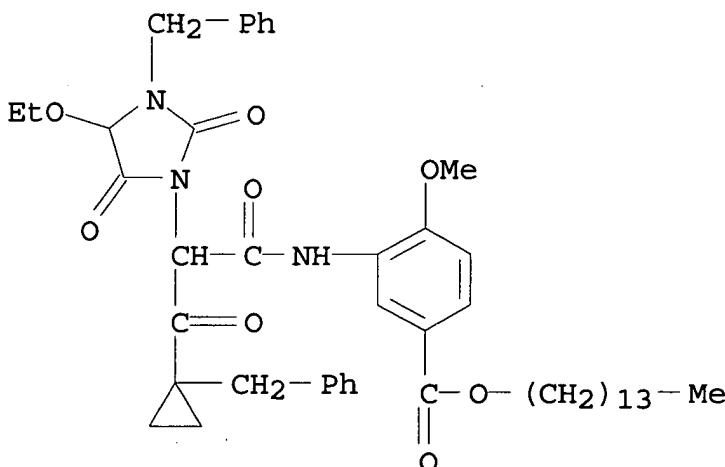
IT 417702-37-5 417702-39-7

(yellow coupler; for silver halide color photog. material for manufacture of color proof for printing plate making)

RN 417702-37-5 HCPLUS

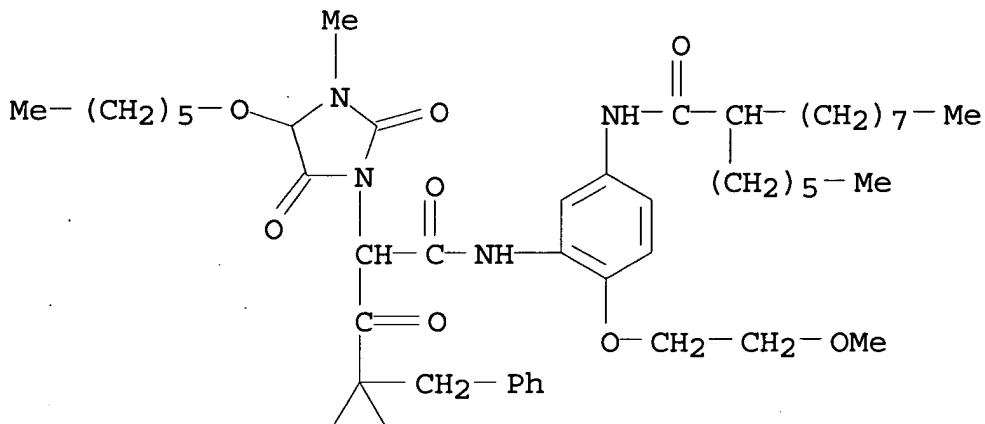
CN Benzoic acid, 3-[[2-[4-ethoxy-2,5-dioxo-3-(phenylmethyl)-1-

imidazolidinyl]-1,3-dioxo-3-[1-(phenylmethyl)cyclopropyl]propyl]amino]-4-methoxy-, tetradecyl ester (9CI) (CA INDEX NAME)



RN 417702-39-7 HCPLUS

CN 1-Imidazolidineacetamide, N-[5-[(2-hexyl-1-oxodecyl)amino]-2-(2-methoxyethoxy)phenyl]-4-(hexyloxy)-3-methyl-2,5-dioxo- α -[[1-(phenylmethyl)cyclopropyl]carbonyl]- (9CI) (CA INDEX NAME)



IC ICM G03C007-20
 ICS G03C005-08; G03C007-00; G03C007-413; G03C007-42
 CC 74-6 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)
 IT 137320-46-8 144365-76-4 **417702-37-5** 417702-38-6
417702-39-7
 (yellow coupler; for silver halide color photog. material for
 manufacture of color proof for printing plate making)

L58 ANSWER 10 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1997:184090 HCPLUS
 DOCUMENT NUMBER: 126:178986
 TITLE: Processing of silver halide color
 photographic
 material
 INVENTOR(S): Yoshida, Kazuaki; Okada, Hisashi
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 72 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
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JP 08339064	A2	19961224	JP 1995-186144

1995

0609

PRIORITY APPLN. INFO.:

JP 1995-186144

1995

0609

AB In processing the material with a bleaching processing solution after

color development, the processing solution contains ≥ 1 ferric complex salt of a compound $R1N(L1CO2M1)(L2CO2M2)$ (I; $R1 = H$, aliphatic

hydrocarbon, aryl, heterocycle; $L1, L2 =$ alkylene; $M1, M2 = H$, cation) or

$M22OCO(CR21R22)tCH(CO2M21)NHWNHCH(CO2M23)(CR23R24)uCO2M$

24 ($R21-24 = H$, aliphatic hydrocarbon, aryl, heterocycle, OH, $CO2H$;

$t, u = 0, 1; W = C$ -containing divalent linking group; $M21-24 = H$, cation) and the surface of the replenishing solution in the tank is

covered with a liquid layer of a floating liquid

The processing solution may also contain ≥ 1 $[Q](CH2)pCO2Ma$ (II; $[Q] =$ nonmetal atoms required to form a heterocycle; $p = 0, 1; Ma = H$, cation). Photog. films are not scratched in the bleaching solution and the generation of pts. in the

replenishing

solution is prevented. Thus, color photog. films were processed by

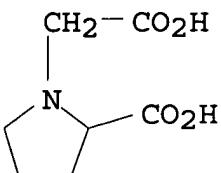
using an automatic processor with a bleach-fixing solution containing I ($R1 = M1 = M2 = H; L1 = CHMe; L2 = CHCH2CO2H$) ferric complex salt, and liquid paraffin was added to its replenishing solution to cover the surface.

IT 5626-40-4 176036-37-6

(photog. bleaching solution containing amine carboxylic compound ferric complex)

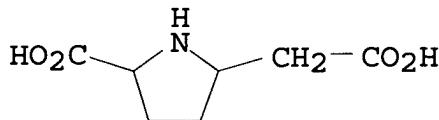
RN 5626-40-4 HCAPLUS

CN 1-Pyrrolidineacetic acid, 2-carboxy- (8CI, 9CI) (CA INDEX NAME)



RN 176036-37-6 HCPLUS

CN 2-Pyrrolidineacetic acid, 5-carboxy- (9CI) (CA INDEX NAME)



IC ICM G03C007-42

ICS G03C007-00; G03C007-44

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 98-98-6, 2-Pyridinecarboxylic acid 499-83-2,
2,6-Pyridinedicarboxylic acid 535-75-1, 2-Piperidinecarboxylic acid 2634-33-5, 1,2-Benzisothiazol-3(2H)-one 5626-40-4
26533-95-9 176036-37-6

(photog. bleaching solution containing amine carboxylic compound ferric complex)

L58 ANSWER 11 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:174527 HCPLUS

DOCUMENT NUMBER: 126:178976

TITLE: Solid chemical composites for processing silver halide photographic materials comprising Fe amino carboxylates and

INVENTOR(S): azolylcarboxylates

Myazaki, Hideo; Okada, Hisashi

PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 35 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
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JP 08334876	A2	19961217	JP 1995-158765

1995

0602

PRIORITY APPLN. INFO.:

JP 1995-158765

1995

0602

AB Claimed **solid** chemical composite for the processing of silver halide photog. materials comprises (1) a ferric chelate $G_1(L_1)^m CX(COOM)(L_3)^n NH L_2 G_2$ (I; G_1, G_2 = carboxyl, phosphono, sulfo, OH, mercapto, aryl, heterocyclic group, alkylthio, amidino, guanidino, carbamoyl; L_1, L_2, L_3 = bivalent aliphatic or bivalent aromatic group; $m, n = 0, 1$; $X = H$, aliphatic or aromatic group), and (2) a carboxy compound $Q(CH_2)_p CO_2 M$ (II; Q = heterocyclic ring; $p = 0, 1$; $M = H$, cation). The composite is highly soluble, yet not hygroscopic, and has high bleaching activity. It is used for bleach and **bleach-fix** solution. Thus, a Fe(III) chelate of compound I ($G_1, G_2 = COOM$; $L_1, L_2 = CH_2$; $m = 1$; $n = 0$; $X = H$) and pyridine-2,6-dicarboxylic acid (compound II) were mixed with other ingredients to make the bleach composite for color neg. process.

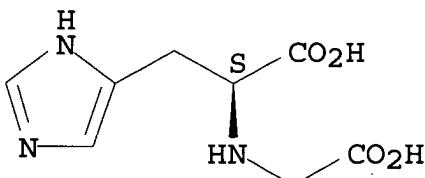
IT 79872-85-8D, ferric complexes 157291-65-1D, ferric complexes

(bleach; **solid** chemical composites comprising Fe amino carboxylates and azolylcarboxylates for photog. processing)

RN 79872-85-8 HCPLUS

CN L-Histidine, N-(carboxymethyl)- (9CI) (CA INDEX NAME)

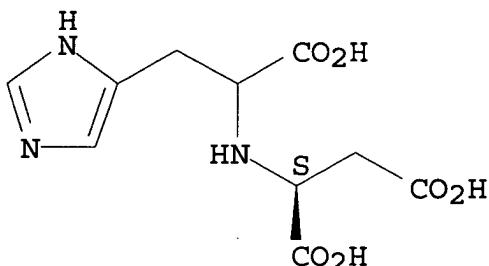
Absolute stereochemistry.



RN 157291-65-1 HCPLUS

CN L-Aspartic acid, N-[1-carboxy-2-(1H-imidazol-4-yl)ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IC ICM G03C007-42
ICS G03C005-26

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST bleach photog solid chem composite; azolylcarboxylate
bleach additive photog processing; ferric chelate
aminopolycarboxylic acid photog

IT Photographic processing
(bleach; solid chemical composites comprising Fe amino carboxylates and azolylcarboxylates for photog. processing)

IT 98-98-6, Pyridine-2-carboxylic acid 499-83-2,
2,6-Pyridinedicarboxylic acid
(bleach additive for dissoln.; solid chemical composites comprising Fe amino carboxylates and azolylcarboxylates for photog. processing)

IT 41035-85-2D, ferric complexes 79872-85-8D, ferric complexes 121999-46-0D, ferric complexes 157291-64-0D, ferric complexes 157291-65-1D, ferric complexes 157291-66-2D, ferric complexes 157291-67-3D, ferric complexes 157291-68-4D, ferric complexes 181183-06-2D, ferric complexes 181645-10-3D, ferric complexes 187098-10-8D, ferric complexes 187098-28-8D, ferric complexes 187098-34-6D, ferric complexes 187098-35-7D, ferric complexes
(bleach; solid chemical composites comprising Fe amino carboxylates and azolylcarboxylates for photog. processing)

L58 ANSWER 12 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:630422 HCAPLUS

DOCUMENT NUMBER: 123:183310

TITLE: Solid treatment agents for silver halide photographic materials

INVENTOR(S): Tsucha, Ichiro; Haraguchi, Takeshi

PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
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JP 07092624	A2	19950407	JP 1994-175653

1994

0727

PRIORITY APPLN. INFO.: JP 1994-175653 A

1994

0727

JP 1993-186254

1993

0728

AB The agents contain R₁XN(R₂)(CHR₃)_mY₁(CHR₄)_nCO₂M₁ (R₁ = alkyl, alkenyl; R₂ = H, alkyl, hydroxyalkyl; R₃₋₄ = H, OH, alkyl, CO₂M₂; M₂ = H, alkali metal; X = CO, SO₂; Y = O, S, CONR₅; R₅ = H, alkyl, hydroxyalkyl; M₁ = H, alkali metal). The agents may be for bleaching, **bleach-fixing**, or developing. The agent showed good storage stability.

IT 167094-96-4

(developer; **solid** treatment agents containing acylamino acids with good storage stability for silver halide photog. materials)

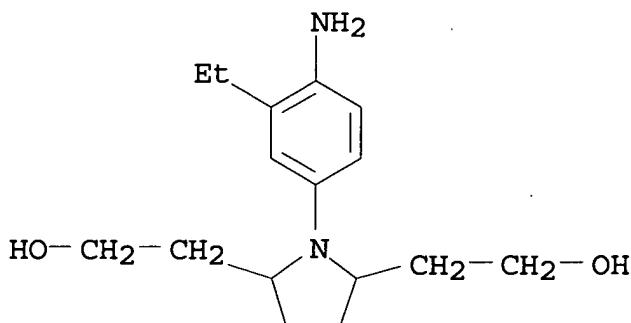
RN 167094-96-4 HCAPLUS

CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)-, sulfate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

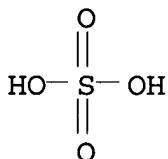
CRN 154306-78-2

CMF C16 H26 N2 O2



CM 2

CRN 7664-93-9

CMF H₂ O₄ S

IC ICM G03C005-26

ICS G03C005-44; G03C007-413; G03C007-42

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)

Section cross-reference(s): 23

ST silver halide photog processing acylamino acid; bleaching agent
acylamino acid photog; **fixing bleach** agent
acylamino acid photog; phenylenediamine developer **solid**
photog

IT Photographic developers

Photographic processing

(solid treatment agents containing acylamino acids with
good storage stability for silver halide photog. materials)IT 12261-51-7 17099-81-9 85959-68-8 111687-36-6 117198-20-6
139410-70-1 167256-48-6(bleaching agent; solid treatment agents containing
acylamino acids with good storage stability for silver halide
photog. materials)

IT 20191-53-1 25646-77-9 137449-80-0 167094-95-3

167094-96-4

(developer; solid treatment agents containing acylamino

acids with good storage stability for silver halide photog. materials)

IT 21539-58-2 21539-72-0 72716-26-8 167094-93-1 167094-94-2
167408-23-3

(solid treatment agents containing acylamino acids with good storage stability for silver halide photog. materials)

L58 ANSWER 13 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:513584 HCPLUS

DOCUMENT NUMBER: 122:251963

TITLE: Tablets for processing silver halide

color photographic light-sensitive materials.

INVENTOR(S): Tsuchiya, Ichiro

PATENT ASSIGNEE(S): Konica Corp., Japan

SOURCE: Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
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EP 624821	A1	19941117	EP 1994-106615

1994

0427

EP 624821	B1	19961127
R: DE, FR, GB, NL		
JP 07028205	A2	19950131
		JP 1994-96607

1994

0510

PRIORITY APPLN. INFO.: JP 1993-108408 A

1993

0510

OTHER SOURCE(S): MARPAT 122:251963

AB The bleach-fix tablets comprise a thiosulfate salt, a ferric complex salt of an amino polycarboxylic

acid and a polymer selected from the group consisting of polyethylene glycols, polyvinylpyrrolidones and polyvinyl alcs. The **tablets** have excellent storage stability and handling property.

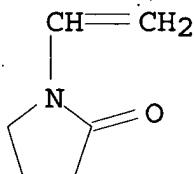
IT 9003-39-8, Polyvinylpyrrolidone
 (tablets for processing silver halide color photog.
 light-sensitive materials)

RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0
 CMF C6 H9 N O



IC ICM G03C007-42
 ICS G03C007-44

CC 74-2 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

ST tablet color photog processing **bleach**
fix

IT Photographic processing
 (color, **bleach-fix**; **tablets**
 containing amino polycarboxylic acid ferric complex and polymer for
 excellent storage stability and handling property)

IT 9002-89-5, Polyvinyl alcohol 9003-39-8,
 Polyvinylpyrrolidone 16448-54-7 17084-02-5 17099-81-9
 17569-89-0 19441-99-7 20438-93-1 25322-68-3, Polyethylene glycol 47379-04-4 74033-33-3 74033-34-4 91837-67-1
 94701-48-1 105832-26-6 105832-31-3 105881-00-3
 110183-56-7
 110197-71-2 110803-03-7 122681-17-8
 (tablets for processing silver halide color photog.
 light-sensitive materials)

L58 ANSWER 14 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1994:641658 HCPLUS
 DOCUMENT NUMBER: 121:241658

TITLE: Processing of silver halide color
photographic material
INVENTOR(S): Hirabayashi, Shigeto
PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
	-----	-----	-----	-----
	JP 06138601	A2	19940520	JP 1992-288999

1992

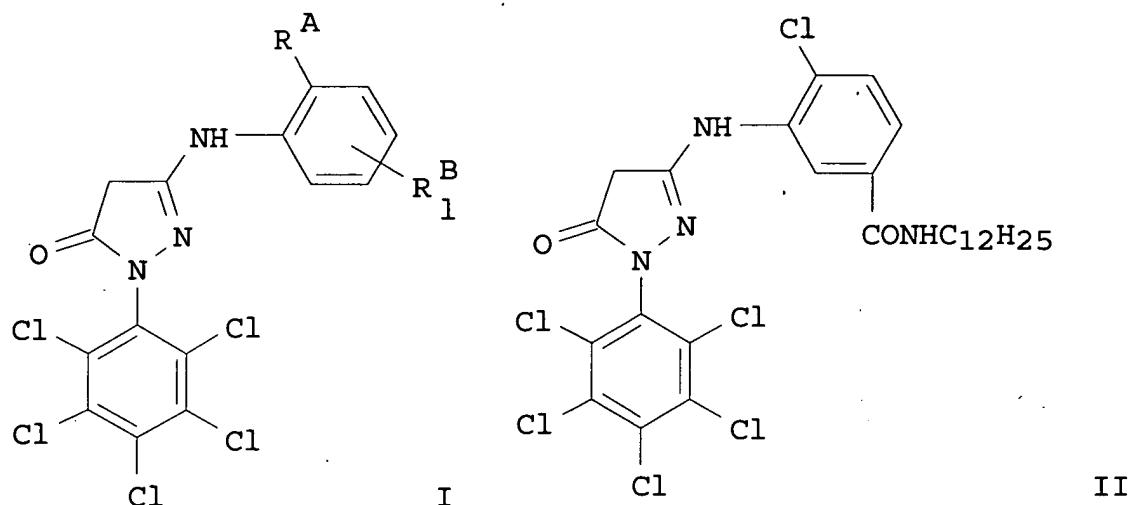
1027

JP 3146388 B2 20010312 JP 1992-288999
PRIORITY APPLN. INFO.:

1992

1027

GI



AB The photog. material, comprising a support coated with blue-, green-, and red-sensitive Ag halide emulsion layers, ≥ 1 of which contains ≥ 1 magenta coupler I (R^A = halo, alkoxy; R^B_1 = acylamino, sulfonamido, imido, carbamoyl, sulfamoyl, alkoxy carbonyl, alkoxy carbonylamino, alkoxy; $l = 0-4$), is treated with processing solns. prepared by using pelletized processing agents. This method provides low fog color images. Thus, a color

photog. film containing II in both of a low and high sensitive green-sensitive Ag(Br, I) emulsion layers was wedge-exposed and processed in an automatic developing machine with a color developing, **bleaching**, **fixing**, and stabilizing solution prepared from each pelletized processing agent.

IT 153314-92-2

(color photog. materials containing, for processing with tablets, with reduced fog)

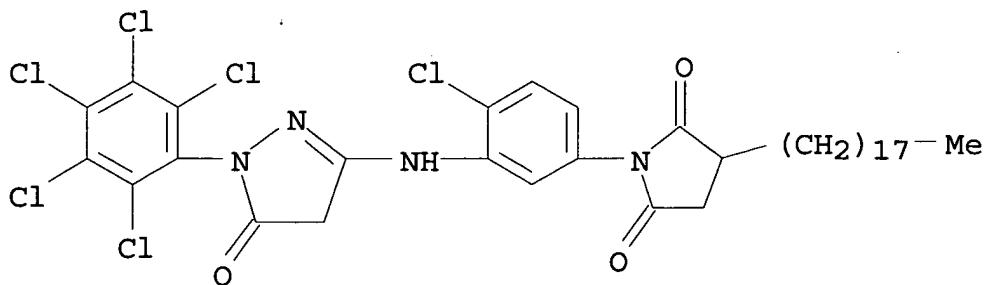
RN 153314-92-2 HCPLUS

CN 2,5-Pyrrolidinedione, 1-[4-chloro-3-[[4,5-dihydro-5-oxo-1-(pentachlorophenyl)-1H-pyrazol-3-yl]amino]phenyl]-3-octadecenyl- (9CI) (CA INDEX NAME)

CM 1

CRN 153569-11-0

CMF C37 H46 Cl6 N4 O3



IC ICM G03C007-30
 ICS C09K003-00; G03C005-00; G03C007-384
 CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)
 ST color photog magenta coupler pyrazole; **tablet** photog
 processing magenta coupler
 IT Photographic processing
 (with **tablets**, pyrazoles as magenta couplers in)
 IT Photographic couplers
 (magenta, pyrazoles as, for processing with **tablets**,
 with reduced fog)
 IT 153070-74-7 153107-30-3 153107-31-4 **153314-92-2**
 (color photog. materials containing, for processing with
 tablets, with reduced fog)

L58 ANSWER 15 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:641656 HCPLUS

DOCUMENT NUMBER: 121:241656

TITLE: Processing of silver halide color
 photographic

material

INVENTOR(S): Hirabayashi, Shigeto

PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----
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JP 06138598	A2	19940520	JP 1992-288996

1992

1027

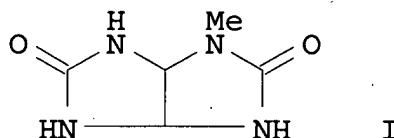
PRIORITY APPLN. INFO.:

JP 1992-288996

1992

1027

GI



AB The photog. material, comprising a support coated with photog. constituent layers containing blue-, green-, and red-sensitive Ag halide emulsion layers, ≥ 1 of which contains ≥ 1 R1AR2 (R1, R2 = organic group; A = group reactable with HCHO; R1 and

R2 may form a ring; A may form a ring together with R1 or R2), is treated with processing solns. prepared by using pelletized processing agents. This method prevents deterioration of sensitivity balance during processing. Thus, a color photog.

film

prepared by using a protective layer containing I was wedge-exposed and

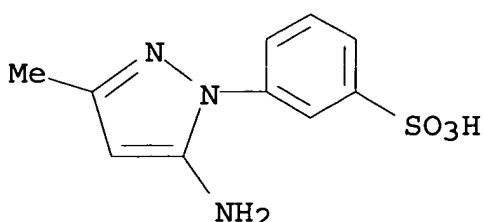
processed in an automatic developing machine with a color developing, **bleaching, fixing**, and stabilizing solution prepared from each pelletized processing agent.

IT 23646-86-8

(photog. materials containing, for processing with **tablets**)

RN 23646-86-8 HCPLUS

CN Benzenesulfonic acid, 3-(5-amino-3-methyl-1H-pyrazol-1-yl)- (9CI)
(CA INDEX NAME)



IC ICM G03C007-30
 ICS C09K003-00; G03C005-00; G03C007-392
 CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)
 ST color photog formaldehyde reacting compd; **tablet**
 processing photog color
 IT Photographic processing
 (with **tablets**, formaldehyde-reacting compound-containing
 photog. materials for)
 IT 97-59-6 123-56-8, 2,5-Pyrrolidinedione 401-73-0 461-72-3,
 2,4-Imidazolidinedione 496-46-8 496-73-1 1481-02-3
 3720-98-7 6402-06-8 **23646-86-8** 28889-54-5
 51228-80-9 87623-30-1 94852-50-3 143392-60-3 156740-15-7
 158263-58-2 158263-59-3
 (photog. materials containing, for processing with **tablets**
)

L58 ANSWER 16 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:617546 HCAPLUS

DOCUMENT NUMBER: 121:217546

TITLE: Processing of silver halide color
photographic

material

INVENTOR(S): Hirabayashi, Shigeto

PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
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JP 06138606	A2	19940520	JP 1992-290483

1992

1028

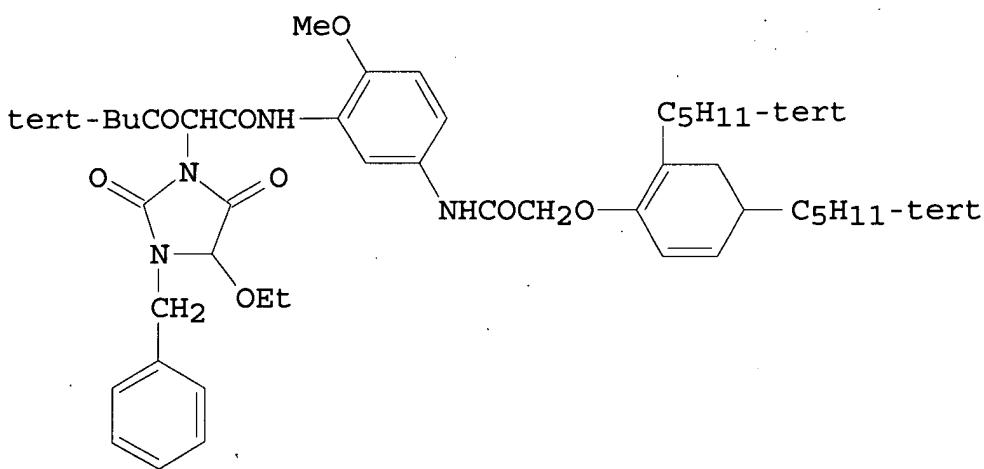
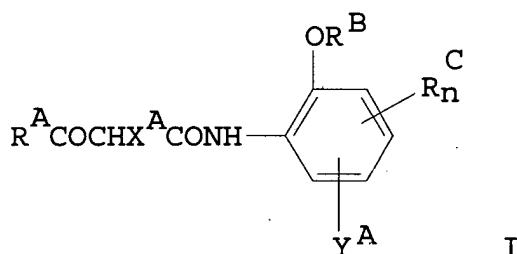
PRIORITY APPLN. INFO.:

JP 1992-290483

1992

1028

GI



- AB The photog. material, comprising a support coated with blue-, green-, and red-sensitive Ag halide emulsion layers, ≥ 1 of which contains ≥ 1 yellow coupler I [RA = (cyclo)alkyl; RB = (cyclo)alkyl, aryl, acyl; RC = substituent; n = 0, 1; XA = group which is released on coupling with oxidized developing agent; YA = organic group], is treated with processing solns. prepared by using

pelletized processing agents. This method provides low fog color images with good lightfastness. Thus, a color photog. film prepared

by using a blue-sensitive Ag(Br, Cl) emulsion layer containing II was

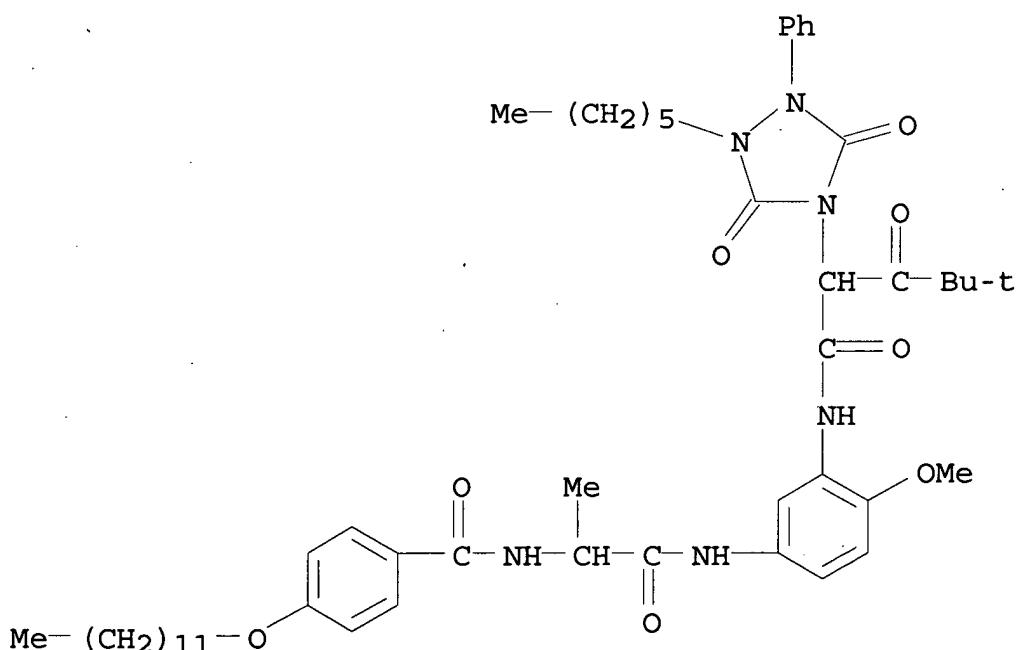
wedge-exposed and processed in an automatic developing machine with a color developing, **bleach-fixing**, and stabilizing solution prepared from each pelletized processing agent.

IT 118020-98-7 118021-04-8 118045-04-8
 137127-14-1 139051-88-0 141702-30-9
 142492-28-2 142520-22-7 142520-23-8
 142596-36-9 142776-95-2 143557-51-1
 143764-37-8 158044-05-4 158044-06-5
 158044-07-6

(color photog. materials containing, for processing with tablets, with reduced fog and good lightfastness)

RN 118020-98-7 HCPLUS

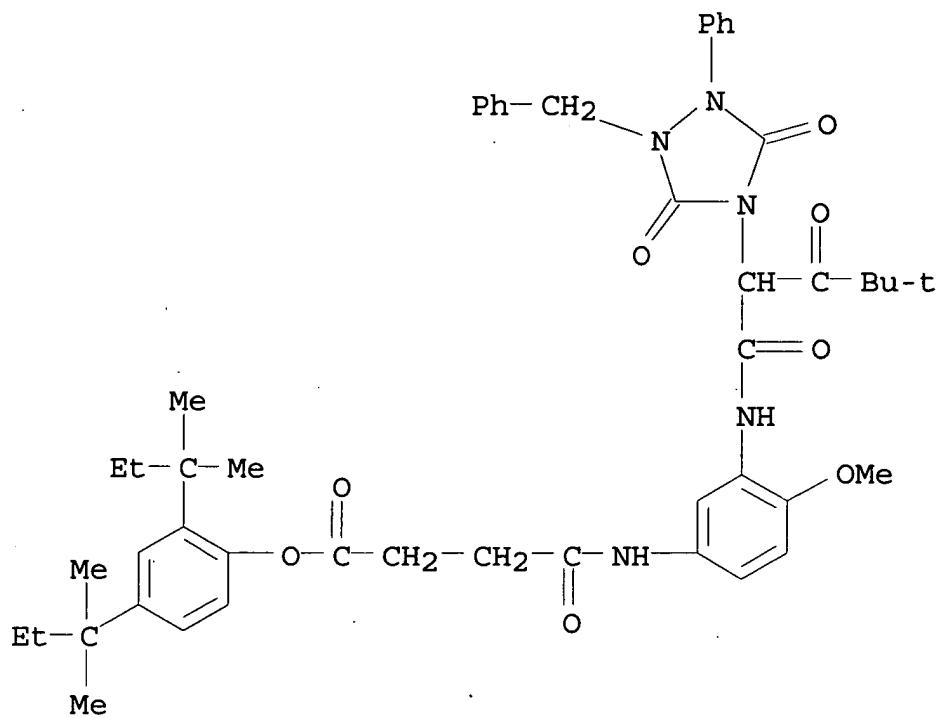
CN 1,2,4-Triazolidine-4-acetamide, α -[(2,2-dimethyl-1-oxopropyl)-N-[5-[[2-[[4-(dodecyloxy)benzoyl]amino]-1-oxopropyl]amino]-2-methoxyphenyl]-1-hexyl-3,5-dioxo-2-phenyl- (9CI) (CA INDEX NAME)



RN 118021-04-8 HCPLUS

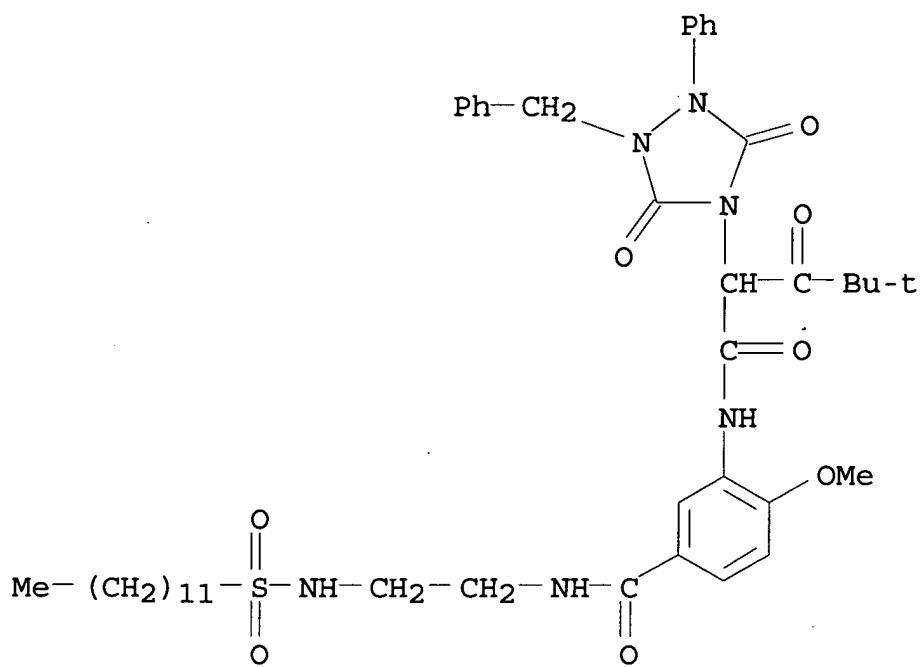
CN Butanoic acid, 4-[[3-[[2-[3,5-dioxo-1-phenyl-2-(phenylmethyl)-1,2,4-triazolidin-4-yl]-4,4-dimethyl-1,3-dioxopentyl]amino]-4-

methoxyphenyl]amino]-4-oxo-, 2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)



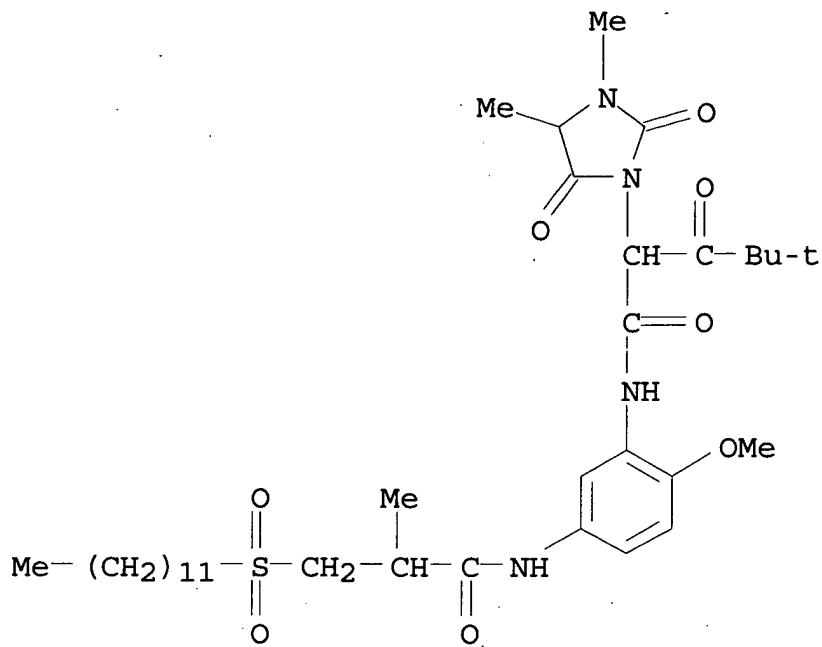
RN 118045-04-8 HCPLUS

CN 1,2,4-Triazolidine-4-acetamide, α-(2,2-dimethyl-1-oxopropyl)-N-[5-[[[2-[(dodecylsulfonyl)amino]ethyl]amino]carbonyl]-2-methoxyphenyl]-3,5-dioxo-1-phenyl-2-(phenylmethyl)- (9CI) (CA INDEX NAME)



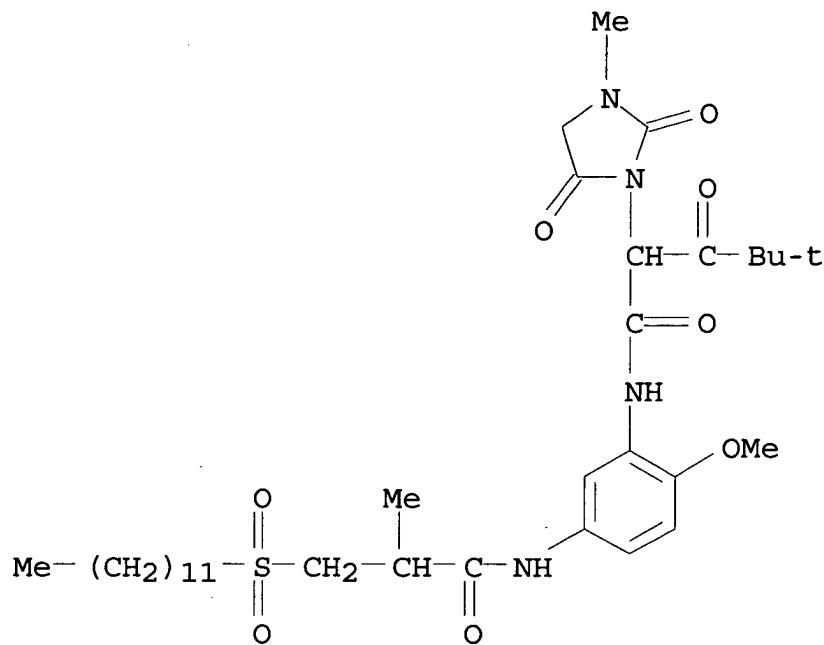
RN 137127-14-1 HCPLUS

CN 1-Imidazolidineacetamide, α - (2,2-dimethyl-1-oxopropyl)-N-[5-[[3- (dodecylsulfonyl) -2-methyl-1-oxopropyl] amino]-2-methoxyphenyl] -
3,4-dimethyl-2,5-dioxo- (9CI) (CA INDEX NAME)



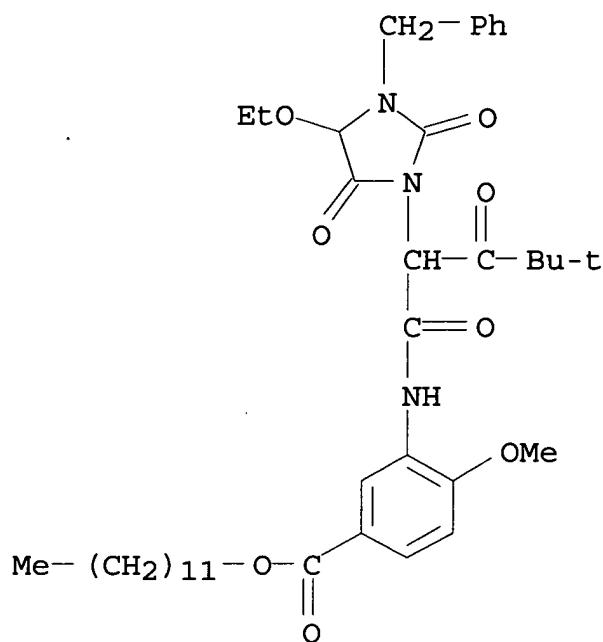
RN 139051-88-0 HCPLUS

CN 1-Imidazolidineacetamide, α - (2,2-dimethyl-1-oxopropyl)-N-[5-[[3- (dodecylsulfonyl) -2-methyl-1-oxopropyl] amino]-2-methoxyphenyl] -
3-methyl-2,5-dioxo- (9CI) (CA INDEX NAME)



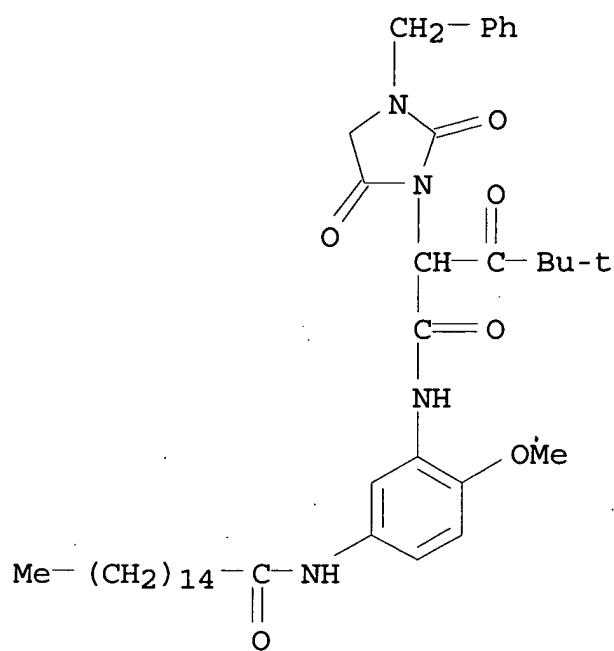
RN 141702-30-9 HCAPLUS

CN Benzoic acid, 3-[[2-[4-ethoxy-2,5-dioxo-3-(phenylmethyl)-1-imidazolidinyl]-4,4-dimethyl-1,3-dioxopentyl]amino]-4-methoxy-, dodecyl ester (9CI) (CA INDEX NAME)



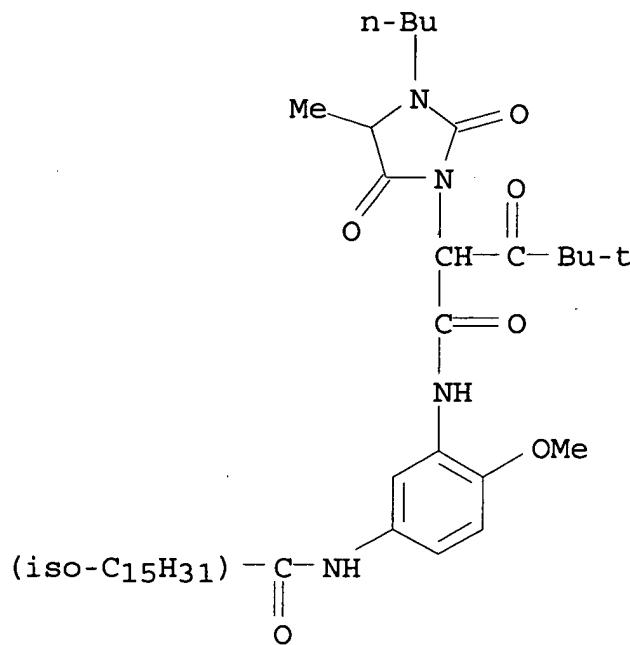
RN 142492-28-2 HCPLUS

CN 1-Imidazolidineacetamide, α -(2,2-dimethyl-1-oxopropyl)-N-[2-methoxy-5-[(1-oxohexadecyl)amino]phenyl]-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



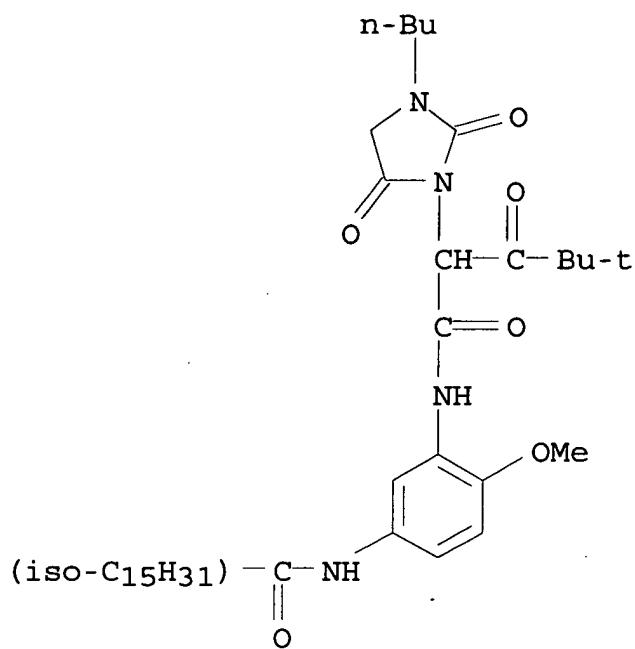
RN 142520-22-7 HCAPLUS

CN 1-Imidazolidineacetamide, 3-butyl- α -(2,2-dimethyl-1-oxopropyl)-N-[2-methoxy-5-[(1-oxoisoheptadecyl)amino]phenyl]-4-methyl-2,5-dioxo- (9CI) (CA INDEX NAME)



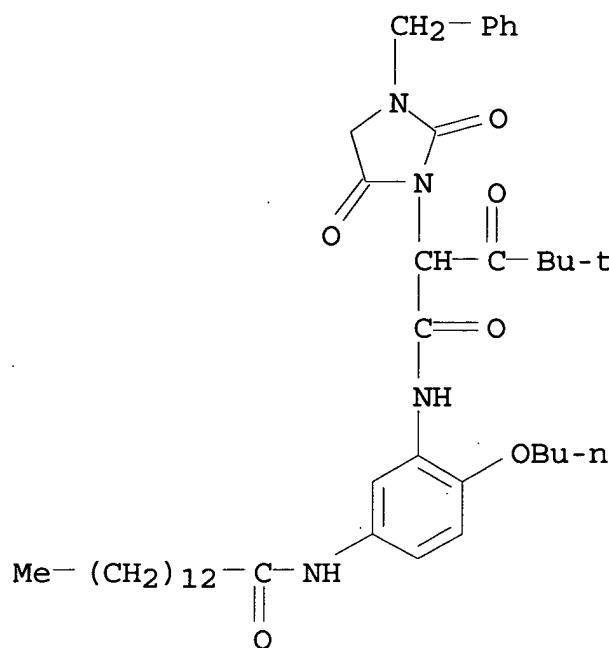
RN 142520-23-8 HCAPLUS

CN 1-Imidazolidineacetamide, 3-butyl-alpha-(2,2-dimethyl-1-oxopropyl)-N-[2-methoxy-5-[(1-oxoisohexadecyl)amino]phenyl]-2,5-dioxo- (9CI) (CA INDEX NAME)



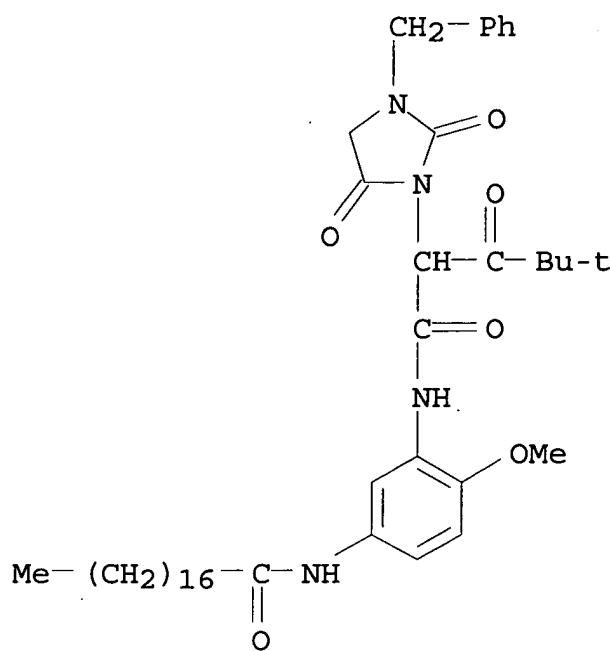
RN 142596-36-9 HCAPLUS

CN 1-Imidazolidineacetamide, N-[2-butoxy-5-[(1-oxotetradecyl)amino]phenyl]-α-(2,2-dimethyl-1-oxopropyl)-2,5-dioxo-3-(phenylmethyl) - (9CI) (CA INDEX NAME)



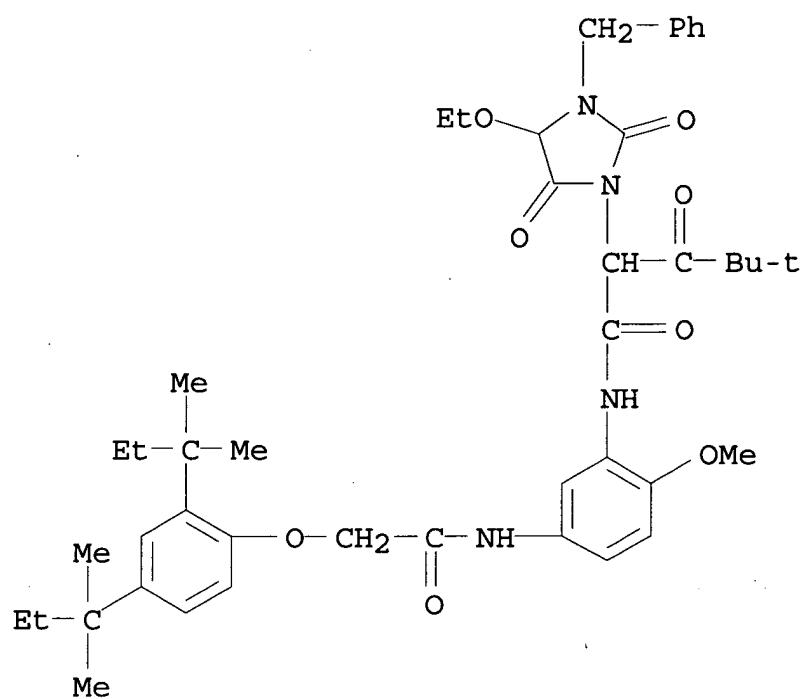
RN 142776-95-2 HCAPLUS

CN 1-Imidazolidineacetamide, α - (2,2-dimethyl-1-oxopropyl)-N- [2-methoxy-5- [(1-oxooctadecyl)amino]phenyl]-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



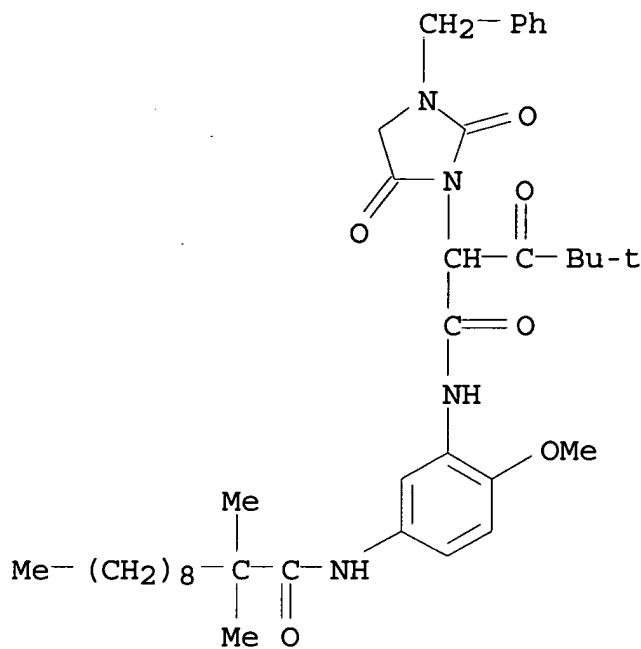
RN 143557-51-1 HCAPLUS

CN 1-Imidazolidineacetamide, N-[5-[[[2,4-bis(1,1-dimethylpropyl)phenoxy]acetyl]amino]-2-methoxyphenyl]- α -(2,2-dimethyl-1-oxopropyl)-4-ethoxy-2,5-dioxo-3-(phenylmethyl)-(9CI)
(CA INDEX NAME)



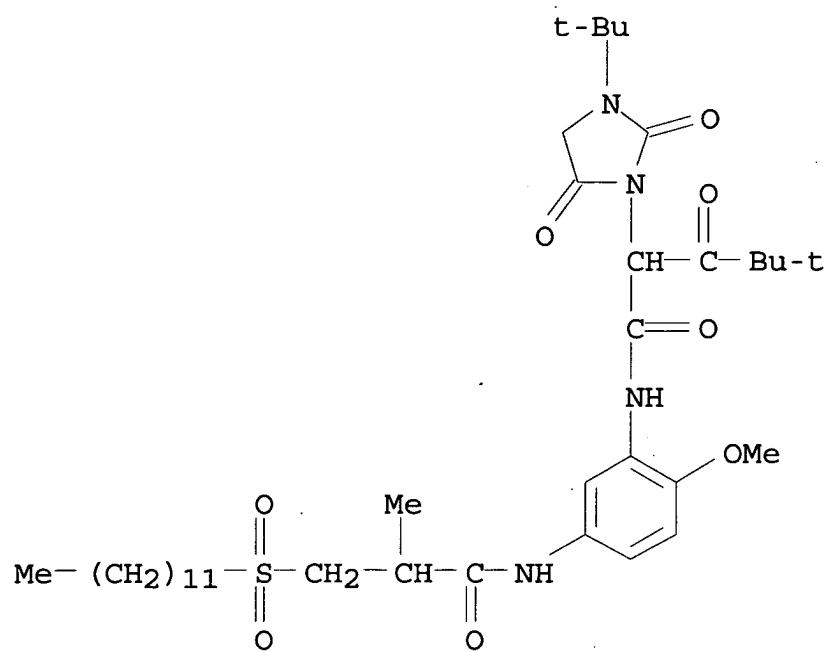
RN 143764-37-8 HCPLUS

CN 1-Imidazolidineacetamide, α -[(2,2-dimethyl-1-oxopropyl)-N-[5-[(2,2-dimethyl-1-oxoundecyl)amino]-2-methoxyphenyl]-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



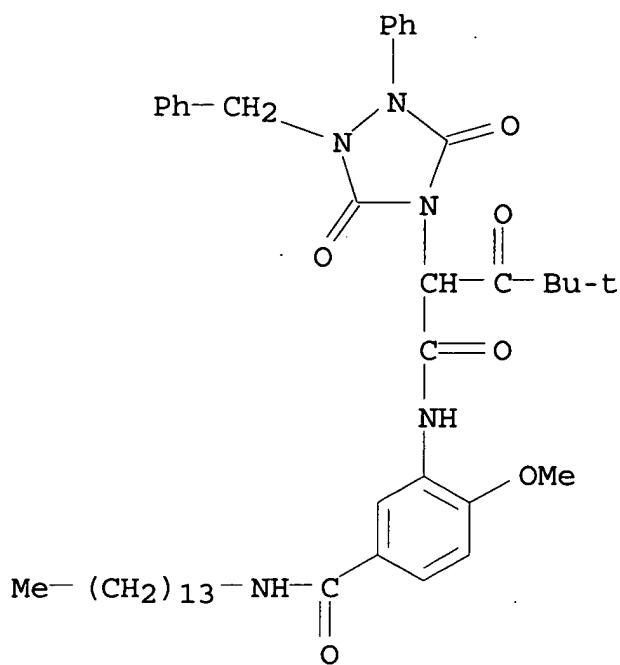
RN 158044-05-4 HCPLUS

CN 1-Imidazolidineacetamide, 3-(1,1-dimethylethyl)- α -(2,2-dimethyl-1-oxopropyl)-N-[5-[[3-(dodecylsulfonyl)-2-methyl-1-oxopropyl]amino]-2-methoxyphenyl]-2,5-dioxo- (9CI) (CA INDEX NAME)



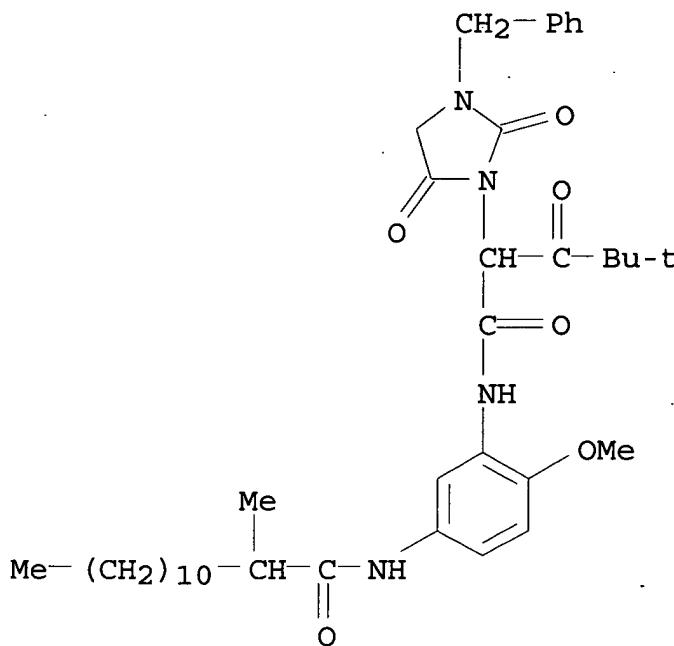
RN 158044-06-5 HCAPLUS

CN 1,2,4-Triazolidine-4-acetamide, α - (2,2-dimethyl-1-oxopropyl)-
N- [2-methoxy-5- [(tetradecylamino)carbonyl]phenyl]-3,5-dioxo-1-
phenyl-2-(phenylmethyl) - (9CI) (CA INDEX NAME)



RN 158044-07-6 HCAPLUS

CN 1-Imidazolidineacetamide, α -(2,2-dimethyl-1-oxopropyl)-N-[2-methoxy-5-[(2-methyl-1-oxotridecyl)amino]phenyl]-2,5-dioxo-3-(phenylmethyl)-(9CI) (CA INDEX NAME)



IC ICM G03C007-30
 ICS C09K003-00; G03C005-00; G03C007-36
 CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)
 ST color photog yellow coupler anilide; **tablet** photog
 processing yellow coupler
 IT Photographic processing
 (1; with **tablets**, anilide-containing color photog.
 materials for, with reduced fog and good lightfastness)
 IT Photographic couplers
 (yellow, anilides as, for processing with **tablets**,
 with reduced fog and good lightfastness)
 IT 118020-98-7 118021-04-8 118045-04-8
 137127-14-1 139051-88-0 141702-30-9
 142492-28-2 142492-31-7 142520-22-7
 142520-23-8 142596-36-9 142776-95-2
 143557-51-1 143764-37-8 144365-76-4
 144688-43-7 158044-05-4 158044-06-5
 158044-07-6
 (color photog. materials containing, for processing with
 tablets, with reduced fog and good lightfastness)

L58 ANSWER 17 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1992:184478 HCAPLUS
 DOCUMENT NUMBER: 116:184478

TITLE: Method for recovering silver from
 photographic processing solution by electrolysis
 INVENTOR(S): Goshima, Nobutaka; Koboshi, Shigeharu
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----	-----
	-----	-----	-----	-----
	JP 03157643	A2	19910705	JP 1989-298153

1989

1116
 PRIORITY APPLN. INFO.: JP 1989-298153

1989

1116

AB Ag is recovered from a photog. processing solution containing a thiosulfate by electrolysis in the presence of ≥ 1 of amines, glycols, and polyvinylpyrrolidones. These compds. are added to an electrolyte in the anode chamber at a concentration of the amines 1-50, the glycols 1-50, and/or the polyvinylpyrrolidones 0.01-50 g/L. Preferably the electrolysis is

carried out at the anode electron d. ≤ 10 A/dm² and the membrane resistance of the diaphragm ≤ 200 V/A/cm². The use of these additives prevents the formation of AgS, increases the current efficiency, and decreases the electrolytic voltage.

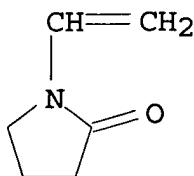
IT 9003-39-8, Polyvinylpyrrolidone 9003-39-8D, Me derivs.
 (electrolysis of photog. processing solns. in presence of, for silver recovery)

RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

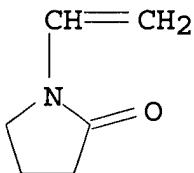
CRN 88-12-0
CMF C6 H9 N O



RN 9003-39-8 HCPLUS
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0
CMF C6 H9 N O



IC ICM G03C005-00
ICS C25C001-20; C25C005-00
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 72
IT Photographic processing
(bleach-fixing solns. containing thiosulfates
for, silver recovery from, by electrolysis)
IT 107-15-3, Ethylenediamine, uses 107-21-1, Ethyleneglycol, uses
109-86-4, Ethyleneglycol monomethyl ether 141-43-5,
Monoethanolamine, uses 9003-39-8, Polyvinylpyrrolidone
9003-39-8D, Me derivs.
(electrolysis of photog. processing solns. in presence of, for
silver recovery)

L58 ANSWER 18 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:31205 HCPLUS

DOCUMENT NUMBER: 116:31205

TITLE: Processing of silver halide color
photographic

INVENTOR(S): material
 PATENT ASSIGNEE(S): Ishikawa, Takatoshi
 SOURCE: Fuji Photo Film Co., Ltd., Japan
 DOCUMENT TYPE: Eur. Pat. Appl., 62 pp.
 LANGUAGE: CODEN: EPXXDW
 FAMILY ACC. NUM. COUNT: Patent
 PATENT INFORMATION: English
 1

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	EP 399434	A2	19901128	EP 1990-109604

1990

0521

EP 399434	A3	19921202
EP 399434	B1	19970108
R: BE, DE, FR, GB, IT, NL		
JP 02306244	A2	19901219
		JP 1989-128388

1989

0522

JP 2949193	B2	19990913
US 5063142	A	19911105
		US 1990-525818

1990

0521

PRIORITY APPLN. INFO.: JP 1989-128388 A

1989

0522

OTHER SOURCE(S): MARPAT 116:31205

GI For diagram(s), see printed CA Issue.

AB A Ag halide color photog. material containing Ag halide grains having

a AgCl content of ≥ 80 mol.% and ≥ 1 yellow coupler represented by the formula I [X = substituent; Y = a releasing group represented by the formula II (Z = a group of atoms forming a heterocyclic ring with N; m = 1-5] is processed by color

development and **bleach-fixation**, wherein a **bleach-fixation** solution which has already been used for the **bleach-fixation** and containing a Ag ion concentration of 0.02 mol/L is used as a replenishing solution

for the **bleach-fixation** bath, thus reducing the amount of waste solution and decreasing the running cost by reusing

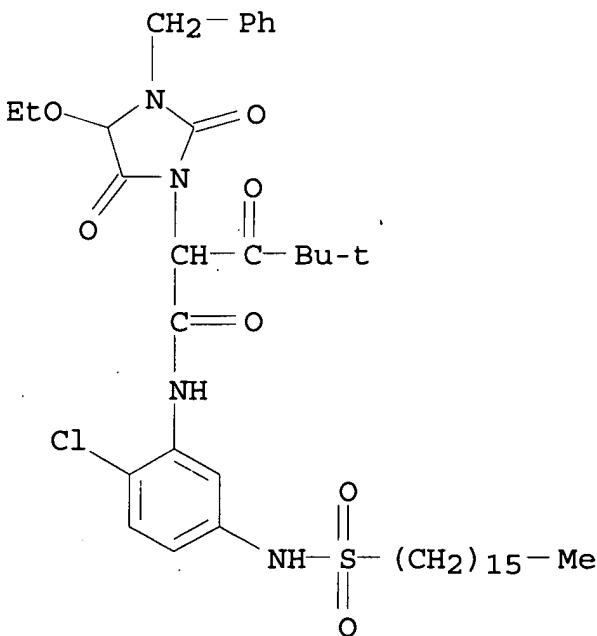
a used **bleach-fixation** solution in continuous processing.

IT 65855-00-7 114747-29-4

(yellow photog. coupler, for color photog. materials with improved processability)

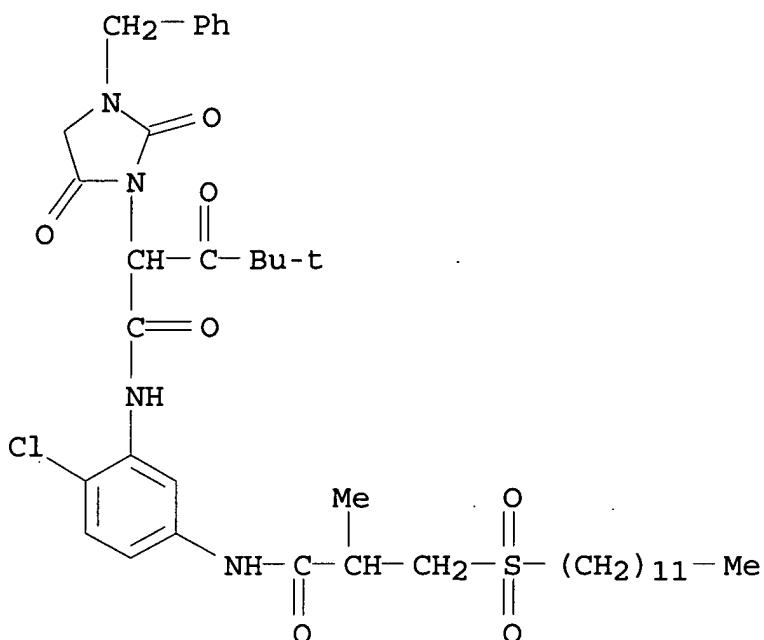
RN 65855-00-7 HCPLUS

CN 1-Imidazolidineacetamide, N-[2-chloro-5-[(hexadecylsulfonyl)amino]phenyl]- α -(2,2-dimethyl-1-oxopropyl)-4-ethoxy-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 114747-29-4 HCPLUS

CN 1-Imidazolidineacetamide, N-[2-chloro-5-[(hexadecylsulfonyl)amino]phenyl]- α -(2,2-dimethyl-1-oxopropyl)-4-ethoxy-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



IC ICM G03C007-26
 ICS G03C007-30; G03C007-36; G03C007-42; G03C007-44
 CC 74-2 (Radiation Chemistry, **Photochemistry**, and
 Photographic and Other Reprographic Processes)
 ST **bleach fixation** soln replenishing
 photoprocessing
 IT Photographic processing
 (color, **bleach-fixing**, reuse of)
 IT 54942-74-4 65855-00-7 114747-29-4
 (yellow photog. coupler, for color photog. materials with
 improved processability)

L58 ANSWER 19 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1991:546536 HCPLUS
 DOCUMENT NUMBER: 115:146536
 TITLE: A color photographic **bleach-**
 fixing bath or fixing bath for a
 rapid, continuous processing of a silver
 halide color photographic light-sensitive
 material containing a pyrazolone or
 pyrazoloazole magenta coupler
 INVENTOR(S): Ueda, Shinji; Nakajo, Kiyoshi; Kojima,
 Tetsuo;
 PATENT ASSIGNEE(S): Sasaki, Hirotomo
 SOURCE: Fuji Photo Film Co., Ltd., Japan
 Jpn. Kokai Tokkyo Koho, 72 pp.

CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
	JP 03039737	A2	19910220	JP 1989-175176

1989

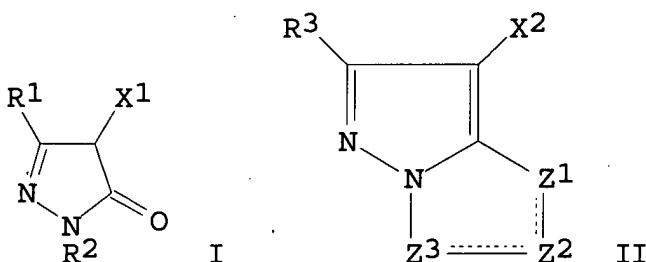
0706

PRIORITY APPLN. INFO.: JP 1989-175176

1989

0706

GI



AB A Ag halide color photog. light-sensitive material containing a pyrazolone magenta coupler (I; R1 = CONH₂, PhNH, NHCONH₂; R2 = Ph;

X1 = group cleavable upon coupling reaction with the oxidized form

of an aromatic primary amine developing agent) or a pyrazoloazole magenta coupler [II; R3 = H, substituent; X2 = H, group cleavable upon coupling reaction with the oxidized form of an aromatic primary

amine developing agent; Z1, Z2, Z3 = (un)substituted CH, N, NH; one of the Z1-Z2 and the Z2-Z3 bonds being a double bond and the other bond being a single bond] is processed first with a bleach

bath containing an Fe(II) complex with an aminopolycarboxylic acid

$(HO_2CH_2)_2N(CHR4)k(L1)_l(CHR5)m(CHR6)aN(CH_2CO_2H)_2$ (III; L1 = O, S, alkylene, CHR7; R4, R5, R6, R7 = H, alkyl; or R5R6, R6R7 forming

a cycloalkyl ring; k, l, m, n = 0-4; a = 1-3; k + l + m + n ≥ 2; excluding a = 1, R4 = R5 = R6 = R7 = H, and k + l + m + n = 2),

e.g. 1,3-diaminopropanetetraacetic acid-Fe(III) complex, and then with a **bleach-fixing** bath and/or a fixing bath containing a sulfite and a carbonyl compound-hydrogen bisulfite addition

product, e.g. $MeCH(OH)OSO_3H$, as preservatives in a molar **concentration** ratio of (5:1) to (1:10). The photog. process maintains the excellent long-term stability of the **bleach**-**fix** or fix bath against the air oxidation during the continuous processing, provides a rapid desilverization by using

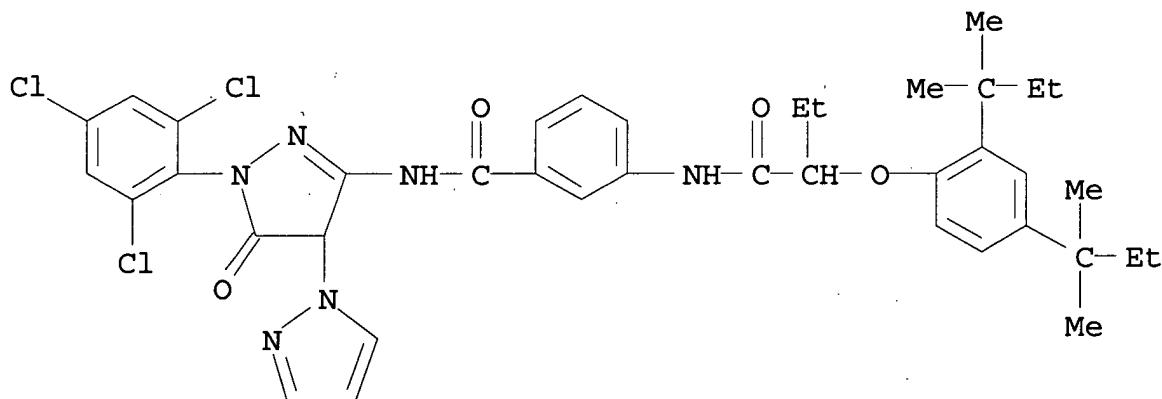
a more powerful oxidizing agent III than the conventional EDTA Na salt-Fe(III) complex and a low pH bath, thus shortening the time for desilverivation and gives a dye image with improved storage stability.

IT 76379-53-8 104166-82-7

(photog. magenta coupler, color photog. material containing, **bleach-fixing** bath for processing of)

RN 76379-53-8 HCPLUS

CN Benzamide, 3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-N-[4',5'-dihydro-5'-oxo-1'-(2,4,6-trichlorophenyl)[1,4'-bi-1H-pyrazol]-3'-yl]-(9CI) (CA INDEX NAME)



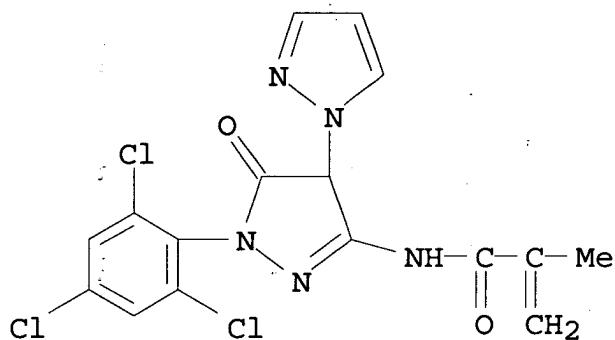
RN 104166-82-7 HCPLUS

CN 2-Propenoic acid, butyl ester, polymer with N-[4',5'-dihydro-5'-oxo-1'-(2,4,6-trichlorophenyl)[1,4'-bi-1H-pyrazol]-3'-yl]-2-methyl-2-propenamide and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 89883-78-3

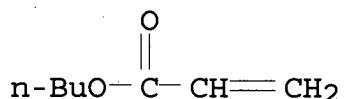
CMF C16 H12 Cl3 N5 O2



CM 2

CRN 141-32-2

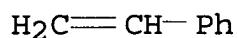
CMF C7 H12 O2



CM 3

CRN 100-42-5

CMF C8 H8



IC ICM G03C007-42
ICS G03C007-384

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)
IT Photographic processing
(color, **bleach-fixing** or fixing baths
containing sulfite salts, carbonyl compound hydrogen bisulfite
adducts, and diaminoalkylenetetraacetic acid ferric complexes
for)
IT 76379-53-8 98155-25-0 104166-82-7
104660-32-4 116944-76-4 116963-09-8 124079-66-9
135872-40-1
(photog. magenta coupler, color photog. material containing,
bleach-fixing bath for processing of)
IT 75-07-0, Acetaldehyde, uses and miscellaneous 141-46-8, Glycol
aldehyde 10192-30-0, Ammonium bisulfite 17569-89-0
20305-86-6 31465-23-3 69588-14-3 108725-89-9 111687-36-6
135851-27-3 135851-28-4 135851-29-5 135872-38-7
(preservative, for photog. **bleach-fixing** or
fixing baths for color processing)

L58 ANSWER 20 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:33016 HCPLUS
DOCUMENT NUMBER: 114:33016
TITLE: Processing of color photographic material
INVENTOR(S): Ishikawa, Takatoshi; Morigaki, Masakazu
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE				
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-----	JP 02082241	A2	19900322	JP 1988-234530

1988

0919 JP 08007423 B4 19960129
PRIORITY APPLN. INFO.: JP 1988-234530

1988

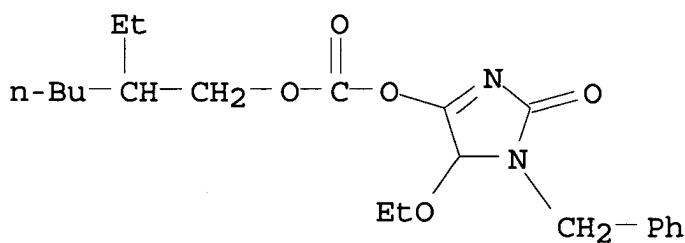
0919

AB In exposing, color developing, and **bleach-fixing** an imagewise exposed Ag halide color photog. material containing ≥ 1 stain inhibitor selected from R1(A)_nX, R2CB:Y [R1, R2 = aliphatic, aromatic, heterocycl; X = a group releasable on reaction with an aromatic primary amine color developing agent; A = a group forming a chemical bond on reaction with the above aromatic primary amine developing agent; n = 1, 0; B = H, aliphatic, aromatic heterocyclic group, acyl, sulfonyl; Y = a group promoting the addition of the developing agent to R2CB:Y; R1 and X, Y and R2 and B may link up to form a ring], and RZ [R = aliphatic, aromatic, heterocyclic group; Z = a nucleophilic group or group releasing a nucleophilic group upon decomposing in the photog. material], the replenishment rate of the **bleach-fixing** solution is 0.5-15 times the amount of the color developer solution carried over per unit area of the photog. material, and the NH₄⁺ content in the **bleach-fixing** solution is ≥ 80 mol.% that of the total cation (Li⁺, Na⁺, K⁺, NH₄⁺) content. Dust and pollution reduction is achieved by requiring smaller amts. of the replenishment solution, and stain formation by the coupler following processing is prevented to give superior color images.

IT 121941-13-7
 (stain inhibitor, color photog. material using)

RN 121941-13-7 HCPLUS

CN Carbonic acid, 5-ethoxy-2,5-dihydro-2-oxo-1-(phenylmethyl)-1H-imidazol-4-yl 2-ethylhexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-42

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)
IT Photographic processing
(color, **bleach-fixing** solution replenishment
and total cation **concentration** control in)
IT 77355-02-3 105491-01-8 115895-13-1 115895-20-0
115895-27-7
115895-32-4 115895-45-9 117789-45-4 117789-46-5
120018-30-6 **121941-13-7** 123607-05-6 124709-49-5
129840-65-9 129976-01-8 129987-93-5 129987-94-6
129987-95-7 129987-96-8
(stain inhibitor, color photog. material using)

L58 ANSWER 21 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:641369 HCPLUS
DOCUMENT NUMBER: 113:241369
TITLE: Method for color reversal image formation
INVENTOR(S): Deguchi, Hisayasu; Koyakata, Nobuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE				
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-----	-----	-----	-----	-----
JP 02089052	A2	19900329	JP 1988-240391	

1988

0926
PRIORITY APPLN. INFO.: JP 1988-240391

1988

0926

AB In effecting color reversal imaging by black-and-white development
and color development followed by fixing or **bleach-fixing** and rinsing a Ag halide photog. material utilizing a Ag halide photog. emulsion layers including ≥ 1 cyan-coloring red-sensitive layer, a yellow-coloring

blue-sensitive layer, and ≥ 2 magenta-coloring green-sensitive layers, ≥ 1 2-equivalent magenta coupler is incorporated in the green-sensitive layers with maximum and min. gradation, resp., the relative coupling speeds of the 2-equivalent

magenta couplers are ≥ 1 and 1.2, and the aldehyde concentration of the final rinsing bath is $\leq 1.0 + 10-2$ mol/L. Sharp images can be obtained with good storability.

IT 89883-79-4 93208-22-1 130396-29-1

130396-30-4 130646-16-1

(magenta photog. coupler, 2-equivalent, color reversal imaging system using)

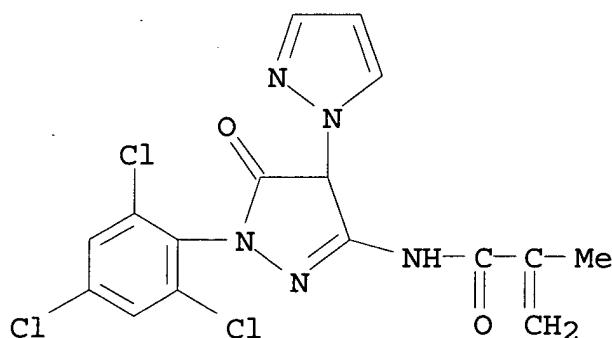
RN 89883-79-4 HCPLUS

CN 2-Propenoic acid, butyl ester, polymer with N-[4',5'-dihydro-5'-oxo-1'-(2,4,6-trichlorophenyl)[1,4'-bi-1H-pyrazol]-3'-yl]-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 89883-78-3

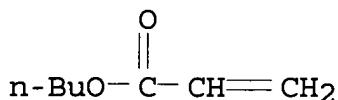
CMF C16 H12 Cl3 N5 O2



CM 2

CRN 141-32-2

CMF C7 H12 O2



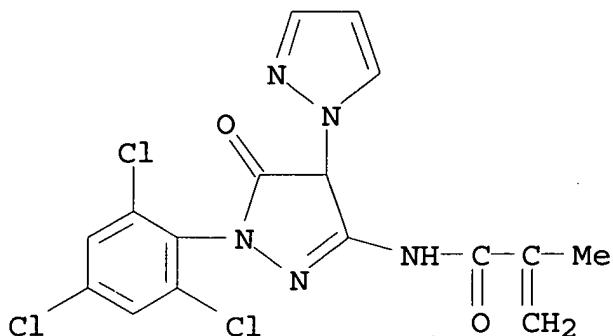
RN 93208-22-1 HCPLUS

CN 2-Propenoic acid, methyl ester, polymer with N-[4',5'-dihydro-5'-oxo-1'-(2,4,6-trichlorophenyl)[1,4'-bi-1H-pyrazol]-3'-yl]-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 89883-78-3

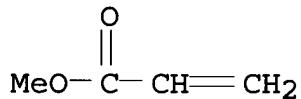
CMF C16 H12 Cl3 N5 O2



CM 2

CRN 96-33-3

CMF C4 H6 O2



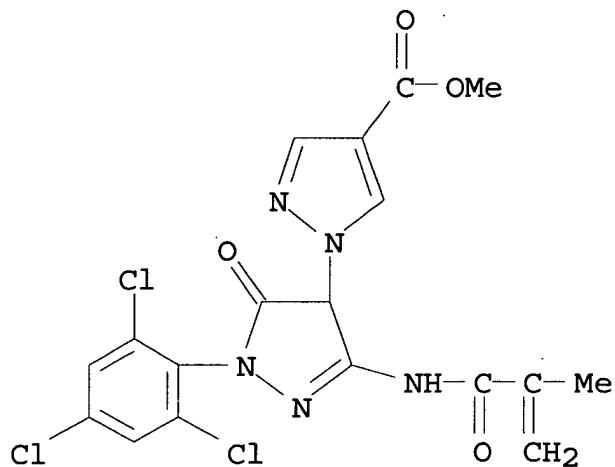
RN 130396-29-1 HCPLUS

CN [1,4'-Bi-1H-pyrazole]-4-carboxylic acid, 4',5'-dihydro-3'-(2-methyl-1-oxo-2-propenylamino)-5'-oxo-1'-(2,4,6-trichlorophenyl)-, methyl ester, polymer with 2-methoxyethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 130396-28-0

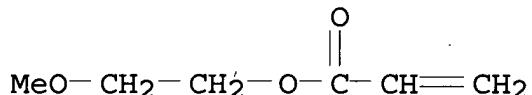
CMF C18 H14 Cl3 N5 O4



CM 2

CRN 3121-61-7

CMF C6 H10 O3



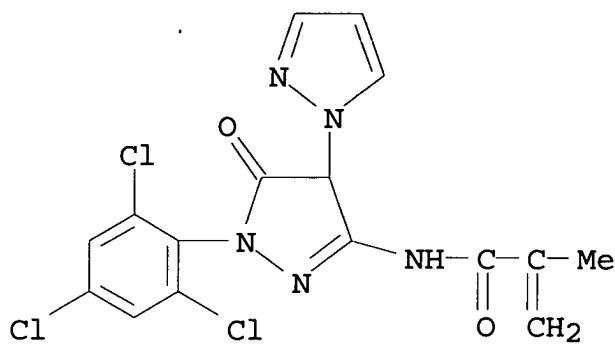
RN 130396-30-4 HCAPLUS

CN 2-Propenoic acid, ethyl ester, polymer with N-[4',5'-dihydro-5'-oxo-1'-(2,4,6-trichlorophenyl)[1,4'-bi-1H-pyrazol]-3'-yl]-2-methyl-2-propenamide and ethenylbenzene (9CI) (CA INDEX NAME)

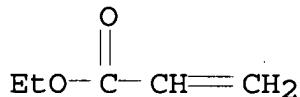
CM 1

CRN 89883-78-3

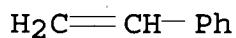
CMF C16 H12 Cl3 N5 O2



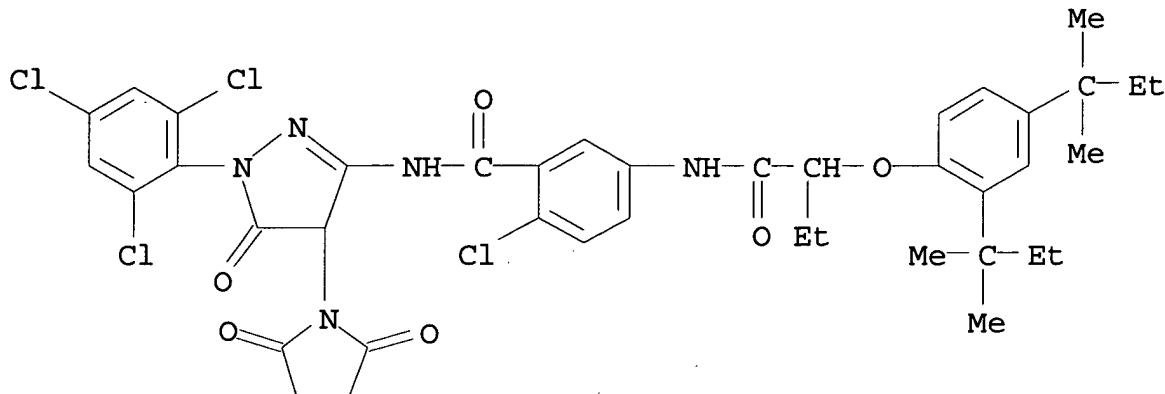
CM 2

CRN 140-88-5
CMF C5 H8 O2

CM 3

CRN 100-42-5
CMF C8 H8

RN 130646-16-1 HCPLUS
 CN Benzamide, 5-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chloro-N-[4-(2,5-dioxo-1-pyrrolidinyl)-4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-3-yl]- (9CI)
 (CA INDEX NAME)



IC ICM G03C011-00

ICS G03C005-50; G03C007-34

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)

IT Photographic processing

(color, reversal, aldehyde **concentration-controlled rinsing**
solns. for)

IT 89883-79-4 93208-22-1 104660-32-4

130396-29-1 130396-30-4 130396-31-5

130646-16-1 130646-17-2 130646-18-3

(magenta photog. coupler, 2-equivalent, color reversal imaging
system using)

L58 ANSWER 22 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:581292 HCPLUS

DOCUMENT NUMBER: 113:181292

TITLE: Color reversal imaging

INVENTOR(S): Deguchi, Hisayasu

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----
-----	-----	-----	-----
JP 02089053	A2	19900329	JP 1988-240392

1988

0926

PRIORITY APPLN. INFO.:

JP 1988-240392

1988

0926

AB In effecting color reversal imaging by imagewise exposure, black-and-white development and color development followed by fixing or **bleach-fixing** and rinsing using a Ag halide photog. material employing a cyan-coloring red-sensitive layer(s), a yellow-coloring blue-sensitive layer(s), and ≥ 2 magenta-coloring green-sensitive layers, ≥ 50 mol% of the magenta coupler in the mixture d. gradation layer is a 4-equivalent coupler and ≥ 70 mol% of that in the maximum d. gradation layer is a 2-equivalent coupler, and the final rinsing bath has an aldehyde concentration $\leq 1.0 + 10^{-2}$ mol/L. The picture obtained has high quality and good pressure-tolerance.

IT 104166-82-7

(magenta coupler, color reversal photog. materials containing)

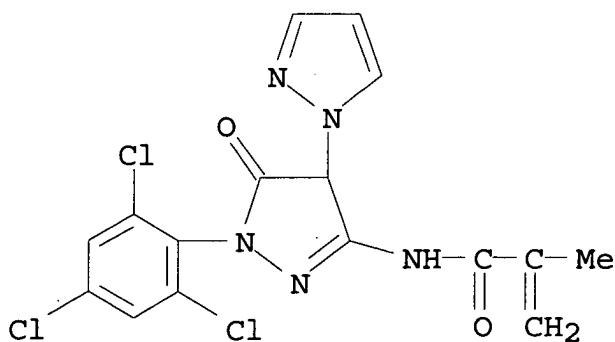
RN 104166-82-7 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with N-[4',5'-dihydro-5'-oxo-1'-(2,4,6-trichlorophenyl)[1,4'-bi-1H-pyrazol]-3'-yl]-2-methyl-2-propenamide and ethenylbenzene (9CI) (CA INDEX NAME)

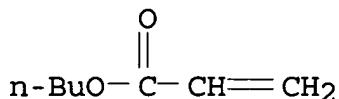
CM 1

CRN 89883-78-3

CMF C16 H12 Cl3 N5 O2



CM 2

CRN 141-32-2
CMF C7 H12 O2

CM 3

CRN 100-42-5
CMF C8 H8 $\text{H}_2\text{C}=\text{CH}-\text{Ph}$ IC ICM G03C011-00
ICS G03C007-38CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)IT 31188-91-7 31598-52-4 54636-84-9 85888-24-0 92996-77-5
104166-82-7

(magenta coupler, color reversal photog. materials containing)

L58 ANSWER 23 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:88120 HCPLUS

DOCUMENT NUMBER: 112:88120

TITLE: Method for processing silver halide color
photographic light-sensitive material

INVENTOR(S): Ishikawa, Takatoshi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 68 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----

EP 289007

A2 19881102

EP 1988-106772

1988

0427

EP 289007

A3 19890329

EP 289007

B1 19920708

R: DE, FR, GB, NL

JP 63271261

A2 19881109

JP 1987-105627

1987

0428

JP 07111569

B4 19951129

US 4939074

A 19900703

US 1988-186232

1988

0426

PRIORITY APPLN. INFO.:

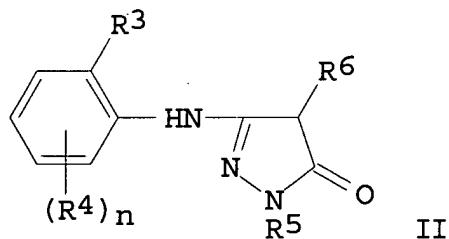
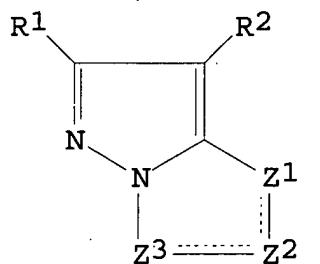
JP 1987-105627

A

1987

0428

GI



AB A Ag halide color photog. material containing ≤ 0.8 Ag/m² and a magenta coupler having the general formula I or II [R₁ = H or a substituent; R₂ = H or a group which may be eliminated through a coupling reaction with an oxidized aromatic primary amine developing

agent; Z1,Z2,Z3 = (substituted) methine, N, or NH provided than one of the bonds Z1-Z2 and Z2-Z3 is a double bond and the other

is

a single bond, that when Z2-Z3 bond is a C=C bond, Z2-Z3 may be a part of an aromatic ring, that a dimer or higher polymer may be formed through R1 or R2, and that when Z1, Z2, or Z3 is a substituted methine, a dimer or higher polymer may be formed through the substituted methine; R3 = halogen, alkyl, alkoxy; R4

=

a group which may be substituted for a H atom on a benzene ring;

n

= 1, 2; R5 = (substituted) Ph; R6 = a group eliminated when the coupler reacts with an oxidized aromatic primary amine developing agent] is processed by color development, **bleach-fixing** in a bath containing \leq 0.1 mol/L bleaching agents or \leq 0.5 mol/L fixing agents, and water washing and/or stabilizing, in which the amount of the replenishing **liquid** for washing water and/or stabilization solution is 3 to 50 times

the

volume of **liquid** carried over from the bath preceding the water washing and/or the stabilization bath. The method makes it possible to process a low-Ag-content color photog. material without impairing or lowering desilvering efficiency and

formation

of magenta stains. The method also provides good color images even if the amount of washing water or stabilization is substantially reduced.

IT

103742-14-9

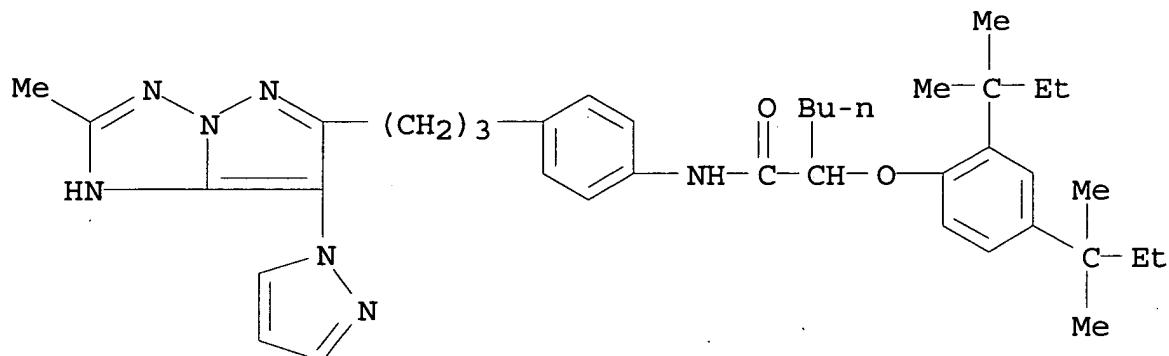
(magenta photog. coupler, for low-silver-content photog. materials for producing low-stain color images)

RN

103742-14-9 HCAPLUS

CN

Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[3-[2-methyl-7-(1H-pyrazol-1-yl)-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]propyl]phenyl]- (9CI) (CA INDEX NAME)



IC ICM G03C007-42

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT Photographic processing

(color, of low-silver-content photog. materials with solns. containing low concns. of leaching and fixing agents)

IT 85888-24-0 98155-25-0 99754-22-0 99754-24-2 101187-00-2

101187-03-5 101904-97-6 101904-98-7 101905-00-4

103742-14-9 104660-32-4 104660-33-5 105343-19-9

109660-11-9 119105-59-8

(magenta photog. coupler, for low-silver-content photog. materials for producing low-stain color images)

L58 ANSWER 24 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:605319 HCPLUS

DOCUMENT NUMBER: 111:205319

TITLE: Wash-water-free photographic processing

method

and pyrazole derivative-containing

stabilizing

bath therefor

INVENTOR(S): Meckl, Heinz; Spriewald, Erika; Renner, Guenter

PATENT ASSIGNEE(S): Agfa-Gevaert A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 14 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			

DE 3800681 A1 19890427 DE 1988-3800681

1988

0113 US 4855216 A 19890808 US 1988-253664

1988

1005 EP 312837 A2 19890426 EP 1988-116524

1988

1006 EP 312837 A3 19900117
 R: BE, DE, FR, GB, IT, NL
 JP 01130157 A2 19890523 JP 1988-255033

1988

1012 PRIORITY APPLN. INFO.: DE 1987-3735274 A1

1987

1017 DE 1988-3800681 A

1988

0113

OTHER SOURCE(S) : MARPAT 111:205319
 GI For diagram(s), see printed CA Issue.
 AB A wash-water-free color photog. processing method for the production of color images consists of development, **bleach-fixing**, and stabilizing steps, wherein the stabilizing bath uses an active amount of a pyrazole derivative I (R = OH, NH₂; R₁ = (un)substituted alkyl, aryl, (un)substituted aryl, or CO₂H; R₂ = H, (un)substituted alkyl; R₃ = H, (un)substituted alkyl, (un)substituted aryl) along with a sequestrant. The color images

produced by this method show a min d. and excellent quality when stored under tropical storage conditions. A typical stabilizer composition (pH 7.5) for use in the above-mentioned processing method contains hydroxyethanediphosphonic acid NH₄ salt, EDTA NH₄ salt, NH₄Cl, 5-chloro-3-methyl-isothiazolone, and II.

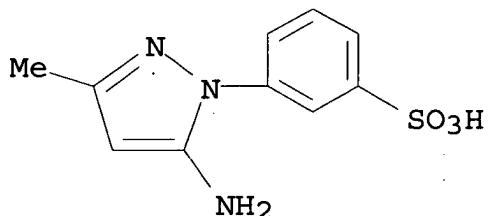
IT 23646-86-8 123652-46-0

(photog. stabilizer bath containing, for use in wash-water-free

color photog. processing)

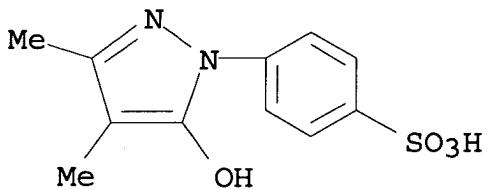
RN 23646-86-8 HCPLUS

CN Benzenesulfonic acid, 3-(5-amino-3-methyl-1H-pyrazol-1-yl)- (9CI)
(CA INDEX NAME)



RN 123652-46-0 HCPLUS

CN Benzenesulfonic acid, 4-(5-hydroxy-3,4-dimethyl-1H-pyrazol-1-yl)- (9CI) (CA INDEX NAME)



IC ICM G03C007-30

ICS G03C007-42

ICA G03C007-32; C07D231-20; C07D231-38; C07D231-24

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 23646-86-8 123652-46-0

(photog. stabilizer bath containing, for use in wash-water-free

color photog. processing)

L58 ANSWER 25 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:487332 HCAPLUS
 DOCUMENT NUMBER: 111:87332
 TITLE: Method for processing light-sensitive silver halide color photographic material with developer containing hydroxylamine compound
 INVENTOR(S): Ishikawa, Masao; Kuse, Satoru
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Eur. Pat. Appl., 100 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
	EP 306293	A2	19890308	EP 1988-308062
1988				
0831	EP 306293 R: DE, GB JP 01062641	A3 A2	19900117 19890309	JP 1987-220061
1987				
0902	JP 08020692 JP 01070752	B4 A2	19960304 19890316	JP 1987-227709
1987				
0910	US 4965176	A	19901023	US 1988-238755
1988				
0830	PRIORITY APPLN. INFO.:			JP 1987-220061 A
1987				
0902				

JP 1987-227709

A

1987

0910

AB A method of processing a color photog. material containing a core-shell-type Ag halide emulsion (AgCl-containing shell) comprises

development with a solution containing R₁R₂NOH [R₁, R₂ = H, C₁-5 alkyl,

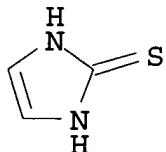
R₁ and R₂ may combine to form a ring provided that R₁ and R₂ ≠ H at the same time]. The photog. material contains a mercapto compound. The specific magenta couplers and a **bleach-fixing composition** component are also claimed. The material is capable of rapid processing and producing high d. images without fog.

IT 872-35-5 3247-70-9 121942-03-8

(photog. fog inhibitor, for rapid processing system)

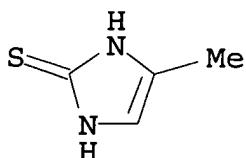
RN 872-35-5 HCPLUS

CN 2H-Imidazole-2-thione, 1,3-dihydro- (9CI) (CA INDEX NAME)



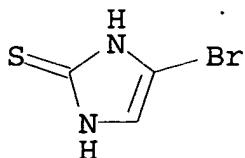
RN 3247-70-9 HCPLUS

CN 2H-Imidazole-2-thione, 1,3-dihydro-4-methyl- (9CI) (CA INDEX NAME)



RN 121942-03-8 HCPLUS

CN 2H-Imidazole-2-thione, 4-bromo-1,3-dihydro- (9CI) (CA INDEX NAME)



IC ICM G03C007-30
ICS G03C007-26

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)

IT 96-53-7, 2-Thiazolidinethione 149-30-4, 2(3H)-
Benzothiazolethione 583-39-1 **872-35-5** 2382-96-9,
2(3H)-Benzoxazolethione 3004-42-0 **3247-70-9**
4845-64-1, Naphtho[1,2-d]thiazole-2(1H)-thione 5331-91-9
5585-19-3 6325-91-3 7271-45-6 7341-98-2 10486-58-5,
2(3H)-Benzoselenazolethione 10583-83-2 16099-65-3

29490-19-5

32476-07-6	32873-56-6	33000-71-4	37663-51-7	37751-74-9
38449-51-3	38942-51-7	43023-31-0	54567-59-8	55489-80-0
56232-75-8	58089-26-2	58089-29-5	58236-33-2	58759-62-9
62557-38-4	62999-57-9	68744-65-0	71505-56-1	71505-57-2
71521-92-1	72828-79-6	76267-68-0	76267-69-1	76267-70-4
76267-71-5	76267-72-6	76267-73-7	83430-52-8	85103-32-8
95756-24-4	95756-25-5	99185-59-8	105771-05-9	108315-44-2
110239-13-9	110742-23-9	115653-13-9	115653-14-0	
115681-15-7	116058-85-6	116084-04-9	116209-11-1	
121941-87-5	121941-88-6	121941-89-7	121941-90-0	
121941-91-1	121941-92-2	121941-93-3	121941-94-4	
121941-95-5	121941-96-6	121941-97-7	121941-98-8	
121941-99-9	121942-00-5	121942-01-6	121942-02-7	
121942-03-8	121942-04-9	121942-05-0	121942-06-1	
121942-07-2	121942-08-3	121942-09-4	121942-10-7	
121942-11-8	121984-73-4			

(photog. fog inhibitor, for rapid processing system)

L58 ANSWER 26 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:240105 HCAPLUS

DOCUMENT NUMBER: 110:240105

TITLE: Processing of silver halide color
photographic

material

INVENTOR(S): Ishikawa, Takatoshi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

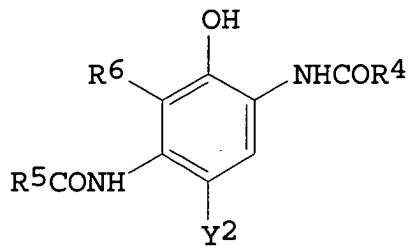
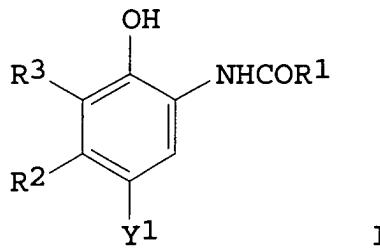
SOURCE: Eur. Pat. Appl., 95 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

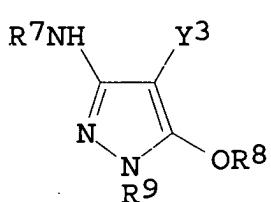
LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
	-----	-----	-----	-----
	EP 293011	A2	19881130	EP 1988-108545
1988				
0527	EP 293011	A3	19890322	
	EP 293011	B1	19920506	
	EP 293011	B2	19981014	
	R: DE, FR, GB			
	US 5169743	A	19921208	US 1988-199322
1988				
0526	JP 01052151	A2	19890228	JP 1988-129746
1988				
0527	JP 2627533	B2	19970709	
PRIORITY APPLN. INFO.:				JP 1987-134422 A
1987				
0529				
GI				

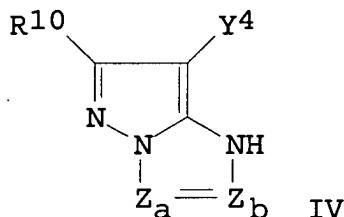


I

II



III



IV

AB In the processing of a Ag halide color photog. material comprising

color development, **bleach-fixing**, and water washing and/or stabilization, the pH of the **bleach-fixing** solution ranges from 3.5 to 5.5 and the amount of the replenished liquid for the washing water and/or the stabilization solution is 3-50 times the volume of the liquid carried over from the bath preceding the water washing and/or the stabilization bath. The photog. material preferably contains ≥ 1 cyan coupler represented by the formula I or II (R18 R4, R5 = aliphatic, aromatic, heterocyclic, aromatic amino, or heterocyclic

amino group; R2 = aliphatic group having ≥ 2 C atoms; R3, R6 = H, halogen, or aliphatic, aliphatic oxy, or acylamino group; R2 and R3

or R5 and R6 may bond together to form a 5-7-membered ring; Y1, Y2

= halogen, or a group split off upon coupling between with a developing agent; R1, R2, R3, or Y1 and R4, R5, R6, or Y2 may form

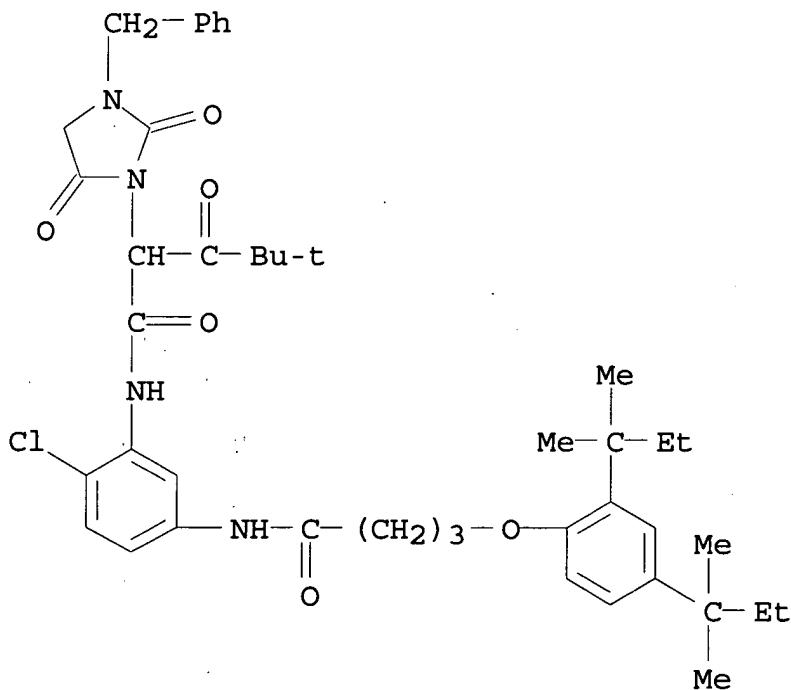
a dimer or a polymer), ≥ 1 magenta coupler represented by the formula III or IV (R7, R9 = (substituted) Ph; R8 = H, aliphatic

or aromatic acyl group, or aliphatic or aromatic sulfonyl group; R10 = H or

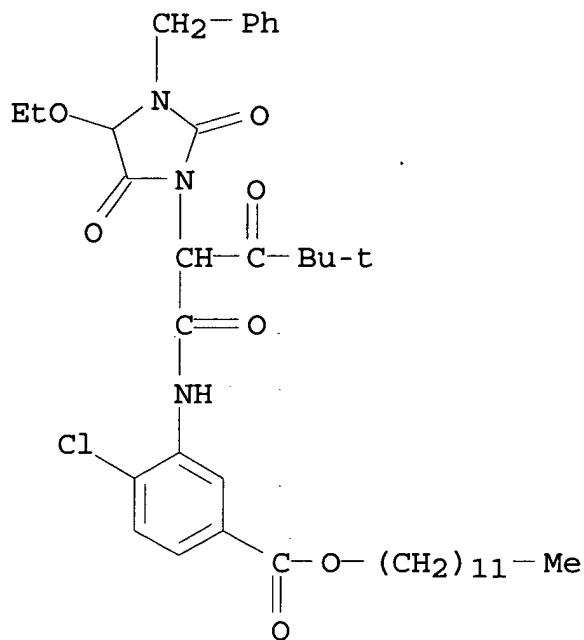
a substituent; Za, Zb = (substituted) methine or N; Y3, Y4 = halogen or a group split off upon coupling reaction with a developing agent; R7, R8, R9, or Y3 and R10, Za, Zb, or Y4 may

form a dimer or a polymer), and ≥ 1 yellow coupler represented by the formula $\text{Me}_3\text{CCOCHQY}_5$ ($\text{Q} = (\text{substituted})$ N-phenylcarbonyl; $\text{Y}_5 = \text{halogen or a group split off upon coupling reaction with a developing agent}$; Q or Y_5 may form a dimer or a polymer). The invention provides a rapid processing method capable of attaining high bleach power and excellent stability in which a cyan dye is scarcely converted to a leuco dye. The rapid processing method also provides excellent silver removal and image stability.

IT 55697-63-7 92683-20-0 95050-16-1
 (yellow coupler, for rapid-processing color photog. materials)
 RN 55697-63-7 HCPLUS
 CN 1-Imidazolidineacetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]- α -(2,2-dimethyl-1-oxopropyl)-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

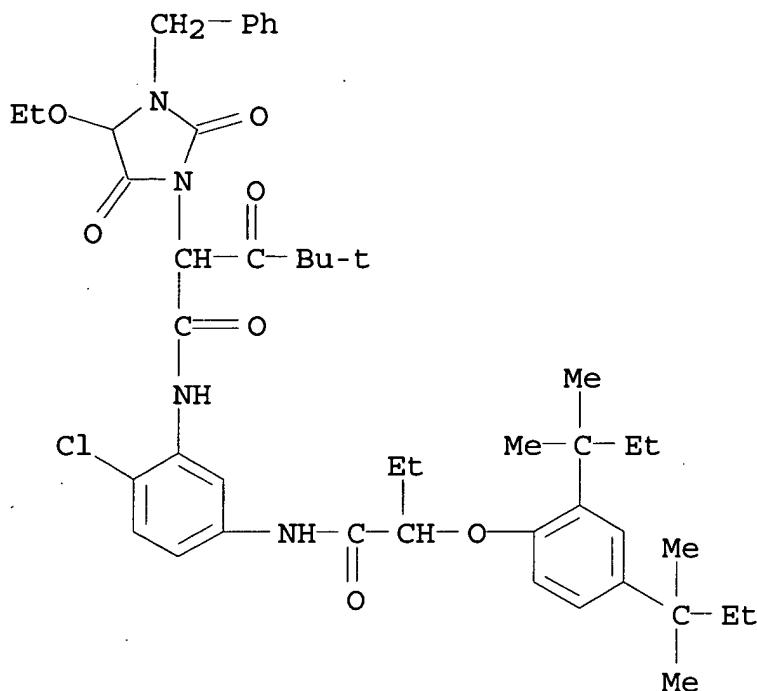


RN 92683-20-0 HCPLUS
 CN Benzoic acid,
 4-chloro-3-[(2-[(2R,3S)-2,3-dimethylbutyl]pentyl)amino]-1-imidazolidinyl-4,4-dimethyl-1,3-dioxopentyl ester (9CI) (CA INDEX NAME)



RN 95050-16-1 HCPLUS

CN 1-Imidazolidineacetamide, N-[5-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]- α -(2,2-dimethyl-1-oxopropyl)-4-ethoxy-2,5-dioxo-3-(phenylmethyl)-(9CI) (CA INDEX NAME)



IC ICM G03C007-42

ICS G03C007-30; G03C007-32

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)IT 30744-85-5 54942-74-4 55697-63-7 92683-20-0
94816-15-6 95050-16-1 111448-87-4 120949-77-1

120949-78-2

(yellow coupler, for rapid-processing color photog. materials)

L58 ANSWER 27 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:182857 HCPLUS

DOCUMENT NUMBER: 110:182857

TITLE: Processing of color photographic material

INVENTOR(S): Ueda, Shinji; Sakagami, Megumi; Ichijima,
Yasushi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 51 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			

JP 63163853 A2 19880707 JP 1986-313598

1986

1226

PRIORITY APPLN. INFO.: JP 1986-313598

1986

1226

AB Color photog. materials containing a compound capable of releasing a

bleaching promoter on reacting with the oxidized form of a primary

amine-type color developing agent are processed following imagewise exposure by color developing, then immediately **bleach-fixing** or immediately treating with a solution having a salt **concentration** of $\geq 2 + 10^{-3}$ M and **bleach-fixing**. The process is rapid and Ag bleaching is improved.

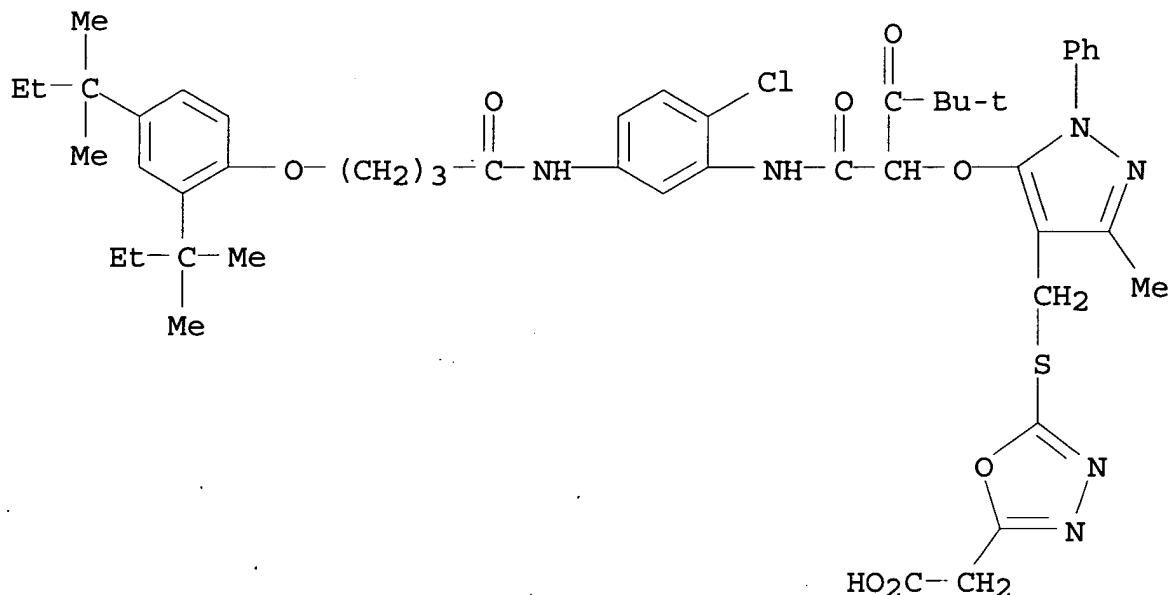
IT 120069-44-5

(bleaching promoter-releasing compound, color photog. material containing)

RN 120069-44-5 HCPLUS

CN 1,3,4-Oxadiazole-2-acetic acid, 5-[[[5-[1-[[[5-[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-

chlorophenyl]amino]carbonyl]-3,3-dimethyl-2-oxobutoxy]-3-methyl-1-phenyl-1H-pyrazol-4-yl]methyl]thio]- (9CI) (CA INDEX NAME)



IC ICM G03C007-42

ICS G03C007-26; G03C007-32

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)IT 105488-31-1 105488-32-2 105488-33-3 105504-92-5
119204-28-3 119204-29-4 119204-31-8 119204-32-9
119220-42-7 119320-42-2 119320-53-5 120069-43-4
120069-44-5 120069-45-6 120069-46-7 120069-47-8
120069-48-9(bleaching promoter-releasing compound, color photog. material
containing)

L58 ANSWER 28 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:104831 HCPLUS

DOCUMENT NUMBER: 110:104831

TITLE: Silver halide color photographic
light-sensitive materialINVENTOR(S): Miura, Norio; Nakagawa, Satoshi; Kida, Shuji;
Kimura, Toshihiko

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Eur. Pat. Appl., 64 pp.

CODEN: EPXXDW

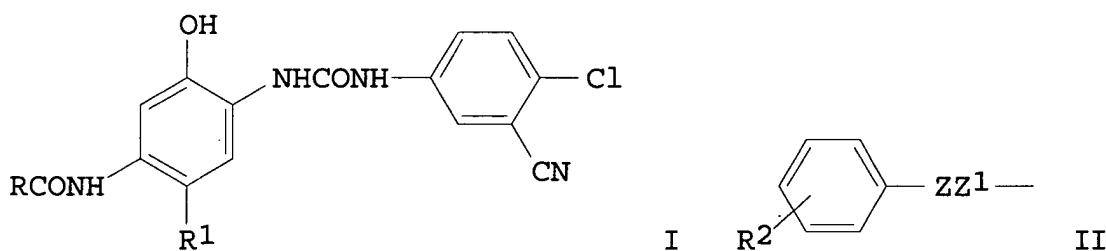
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----	-----
	EP 280505	A2	19880831	EP 1988-301521
1988				
0223	EP 280505	A3	19890607	
	EP 280505	B1	19930127	
	R: DE, FR, GB, IT, NL			
	JP 63206752	A2	19880826	JP 1987-39565
1987				
0223	JP 07122739	B4	19951225	
	US 4865961	A	19890912	US 1988-158715
1988				
0222	PRIORITY APPLN. INFO.:		JP 1987-39565	A
1987				
0223				
GI				



AB A Ag halide color photog. light-sensitive material which has high photosensitivity and provides high-d. cyan images even processed in a fatigued bleach or **bleach-fix** solution
comprises a Ag halide emulsion layer containing a cyan coupler

represented by the general formula I [R = (substituted)alkyl, (substituted) aryl, II; R1 = R3R4R5CO, R3R4R6CO, R7OCO, R8O2SO;

R2

= halogen, OH, (substituted) C1-20 alkyl, alkoxy, alkylsulfonamido, arylsulfonamido, alkylsulfamoyl, arylsulfamoyl, alkylsulfonyl, arylsulfonyl, alkoxy carbonyl; R3,R4,R7 = H, (substituted) alkyl, (substituted) aryl; R5 = a group having a Hammet's σ_p constant ≤ 0.4 ; R6 = a group having a Hammet's $\sigma_p \leq 0$; R8 = alkyl, aryl, alkoxy, aryloxy, alkylamino, arylamino; Z = O, S, SO₂; Z1 = (substituted) C1-20 alkylene; n = 1-4] at a concentration of 0.005-2 mol/mol Ag halide. The photog. light-sensitive material also comprises addnl. Ag halide emulsion layers containing conventional yellow, magenta, and cyan coupler.

IT

96514-07-7

(yellow photog. coupler, silver halide color photog. material containing chlorocyanophenylaminocarbonylaminophenyl

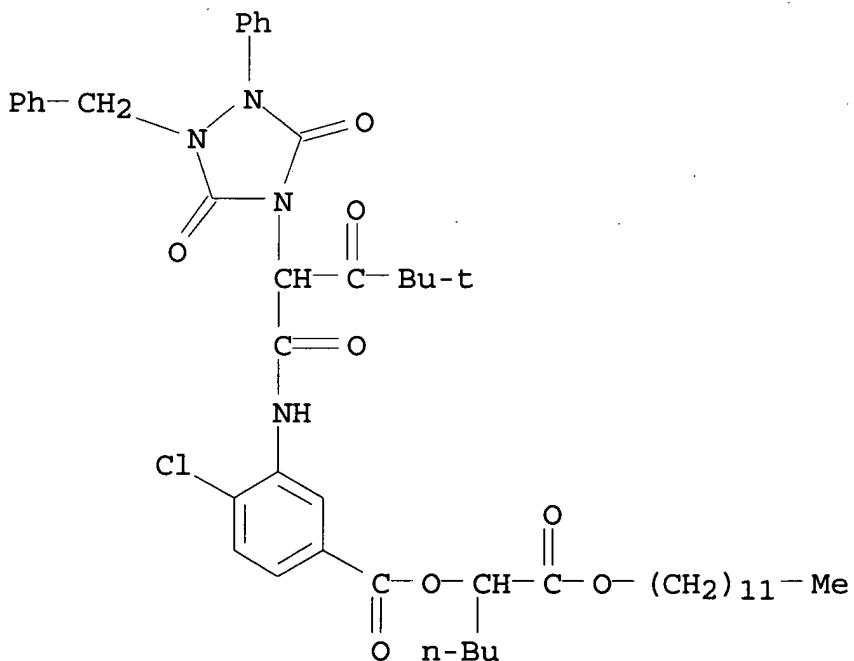
derivative cyano

photog. coupler and)

RN 96514-07-7 HCPLUS

CN Benzoic acid,

4-chloro-3-[[2-[3,5-dioxo-1-phenyl-2-(phenylmethyl)-1,2,4-triazolidin-4-yl]-4,4-dimethyl-1,3-dioxopentyl]amino]-, 1-[(dodecyloxy)carbonyl]pentyl ester (9CI) (CA INDEX NAME).



IC ICM G03C007-34

ICA C07C127-19

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)

IT 96514-07-7

(yellow photog. coupler, silver halide color photog. material
containing chlorocyanophenylaminocarbonylaminophenyl
derivative cyano
photog. coupler and)

L58 ANSWER 29 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:464152 HCPLUS

DOCUMENT NUMBER: 109:64152

TITLE: Processing of color photographic material
withalkaline **bleach-fixing**
solution

INVENTOR(S): Kuse, Satoru; Koboshi, Shigeharu

PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 208 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	EP 243096	A2	19871028	EP 1987-303357

1987

0415

EP 243096	A3	19890315
EP 243096	B1	19940209
R: DE, GB		
JP 62249151	A2	19871030
		JP 1986-92934

1986

0422

JP 06090481	B4	19941114
JP 62249152	A2	19871030
		JP 1986-92937

1986

0422

JP 2546644 B2 19961023
US 4828970 A 19890509 US 1987-38834

1987

0415

EP 491678 A2 19920624 EP 1992-104857

1987

0415

EP 491678 A3 19920909
R: DE, GB
AU 8771736 A1 19871022 AU 1987-71736

1987

0416

AU 589513 B2 19891012
CA 1316037 A1 19930413 CA 1987-534874

1987

0416

JP 63046455 A2 19880227 JP 1987-93348

1987

0417

JP 07104575 B4 19951113
PRIORITY APPLN. INFO.: JP 1986-91088 A

1986

0418

JP 1986-90786 A

1986

0420

JP 1986-92934 A

1986

0422

JP 1986-92935

A

1986

0422

JP 1986-92937

A

1986

0422

OTHER SOURCE(S) : CASREACT 109:64152

AB A method of processing color photog. materials comprises using a **bleach-fixing** solution of pH 4.5-6.8 and the photog. material having ≥ 1 Ag halide emulsion layer containing ≥ 80 mol % AgCl. The SO₃²⁻ concentration in the color developing solution is maintained at $\leq 4 + 10^{-3}$ mol/L. The p-phenylenediamine developing agent, alkanolamine developing solution additive, magenta couplers, cyan couplers, and triazine series fluorescent brighteners for improvement of the images in the above process are also described. Thus, a color photog.

paper

was processed in a **bleach fixing** solution of pH 4.5 to give magenta d. in the unexposed portion 0.04 compared to 0.12 when process at pH 4.0.

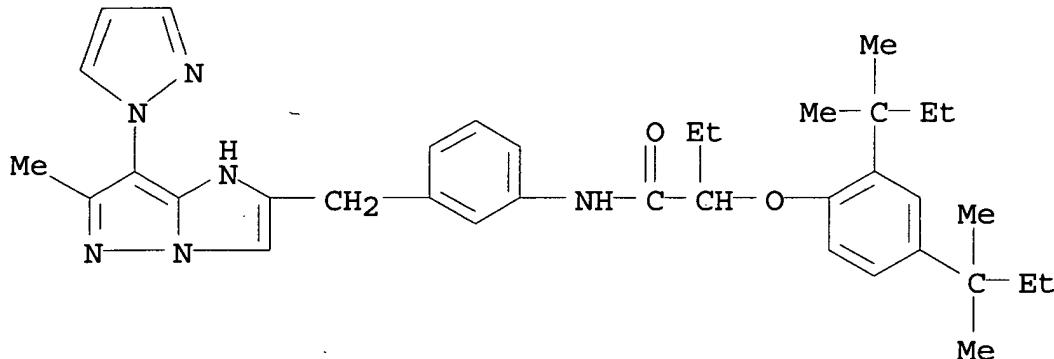
IT 107505-48-6

(photog. magenta coupler, **bleach-fixing** solution pH in relation to)

RN 107505-48-6 HCPLUS

CN Butanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[3-[[6-methyl-7-(1H-pyrazol-1-yl)-1H-imidazo[1,2-b]pyrazol-2-yl]methyl]phenyl]-(9CI) (CA INDEX NAME)



IC ICM G03C007-42
ICS G03C007-26

CC 74-2 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

ST processing photog **bleach fixing** acidity;
sulfite **concn** developer color photog; phenylenediamine developer color photog; phenylenediamine developer color photog; alkanolamine developer color photog; triazine fluorescent brightener photog; coupler magenta cyan photog

IT Photographic developers
(containing phenylenediamine and alkanolamine compds.,
bleach-fixing solution pH in relation to)

IT Photographic processing
(with **bleach-fixing** solution having controlled pH)

IT Photographic emulsions
(with high silver chloride **concentration**, processing for)

IT Photographic couplers
(cyan, **bleach fixing** solution pH in relation to)

IT 14265-45-3P, Sulfite
(**concentration** of, in photog. developer processing affected by)

IT 69319-61-5 92589-17-8 93951-12-3 96758-05-3 99141-88-5
99141-89-6 101664-25-9 109625-38-9 109625-39-0

112493-15-9

112493-16-0 115432-98-9 115432-99-0 115433-00-6
115433-01-7

(photog. cyan coupler, **bleach-fixing** solution pH in relation to)

IT 3654-77-1 4327-84-8 4470-72-8 12224-02-1 25646-71-3
50928-80-8 101415-15-0
(photog. developer solution containing, **bleach-**

fixing solution pH in relation to)

IT 102-60-3 102-71-6, Triethanolamine, uses and miscellaneous
 108-01-0, 2-Dimethylamino ethanol 109-83-1 111-42-2,
 Diethanolamine, uses and miscellaneous 141-43-5, uses and
 miscellaneous 149-46-2, 1,2-Dihydroxybenzene-3,5-disulfonic
 acid 149-91-7, uses and miscellaneous 113458-95-0
 (photog. developers solution containing, **bleach-**
fixing solution pH in relation to)

IT 97054-41-6 98120-97-9 98155-25-0 103913-20-8 104274-40-0
 104433-89-8 104909-21-9 105343-19-9 **107505-48-6**
 115433-02-8
 (photog. magenta coupler, **bleach-fixing**
 solution pH in relation to)

IT 99817-34-2P
 (synthesis and use of, as photog. cyan coupler, **bleach**
-fixing solution pH in relation to)

L58 ANSWER 30 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:446066 HCAPLUS
 DOCUMENT NUMBER: 109:46066
 TITLE: Silver halide color photographic
 light-sensitive material improved in cyan
 image characteristics
 INVENTOR(S): Masukawa, Toyoaki; Tsuda, Yasuo; Ninomiya,
 Hidetaka; Nakayama, Noritaka; Kimura,
 Toshihiko
 PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 29 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	----	-----	-----
	-----	-----	-----	-----
	EP 249453	A2	19871216	EP 1987-305120

1987

0610

EP 249453 R: DE, FR, GB JP 63226653	A3	19890329
	A2	19880921 JP 1987-134144

1987

0529

US 4818672

A

19890404

US 1987-60058

1987

0609

PRIORITY APPLN. INFO.:

JP 1986-138869

A

1986

0613

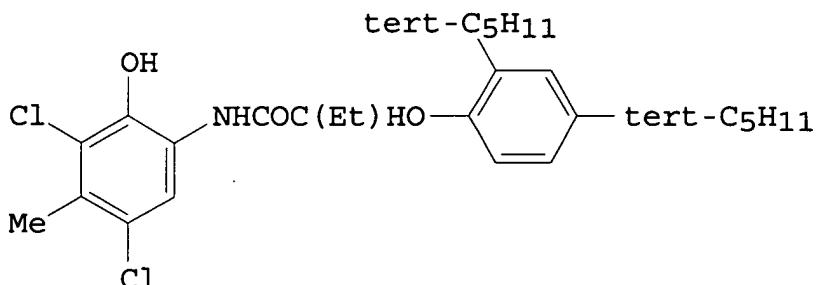
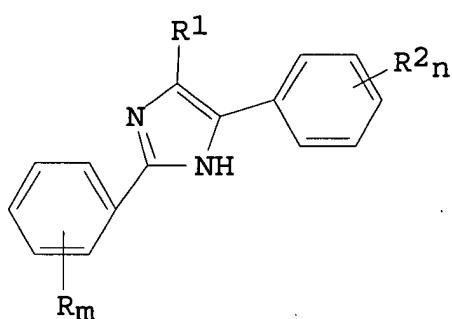
JP 1986-261488

A

1986

1031

GI



AB A Ag halide color photog. material contains a cyan dye-forming

coupler having the general formula I (R, R₂ = a substituent; R₁ = a group capable of being splitted off from the coupler residue upon reaction of the coupler residue with the oxidized product of a color developing agent with the total number of C atoms contained

in the groups represented by R, R₁, and R₂ being from 8 to 50; m, n = 0-5 with m = n ≠ 0). The coupler I forms a cyan dye excellent in spectral absorption characteristics, namely a sharp-cut spectral absorption on the short wavelength side and a substantially less irregular absorption in both green and blue spectral regions and also a substantially greater absorption coefficient. Thus, a solution of p-chlorobenzamidine hydroiodide in DMF

and CHCl₃ was stirred with a KOH solution and mixed with a solution of

o-[α-(2,4-di-tert-amylphenoxy)hexanamido]-α-bromoacetylphenone in CHCl₃ to give 2-p-chlorophenyl-4-[o-[α-(2,4-di-tert-amylphenoxy)hexanamido]phenyl]imidazole (II). II

was

dissolved in di-Bu phthalate and Et acetate, dispersed in aqueous gelatin in the presence of Alkanol XC, mixed with a Ag(Br, Cl) emulsion, coated on an ethylene-laminated paper support, exposed to light through an optical wedge, color-developed, bleach-fixed, washed, and dried to give relative Dmax 12, λ_{max} 658 nm, and Δλ_s (λ_{max}-wavelength making reflection d. to be 0.2) 115 nm vs. 100, 654 nm, and 145 nm, resp., for a control using cyan coupler III.

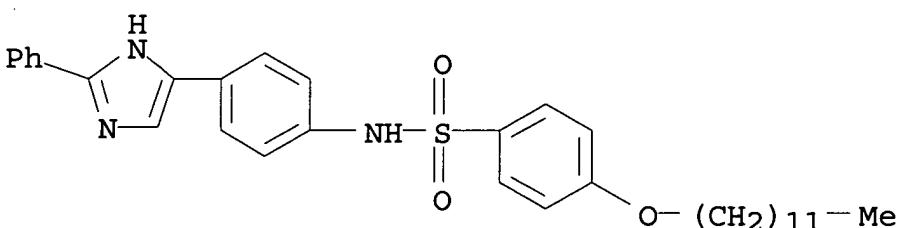
IT 115280-50-7 115280-51-8 115280-52-9

115280-54-1 115280-55-2 115280-56-3

(cyan photog. coupler)

RN 115280-50-7 HCPLUS

CN Benzenesulfonamide, 4-(dodecyloxy)-N-[4-(2-phenyl-1H-imidazol-4-yl)phenyl]- (9CI) (CA INDEX NAME)

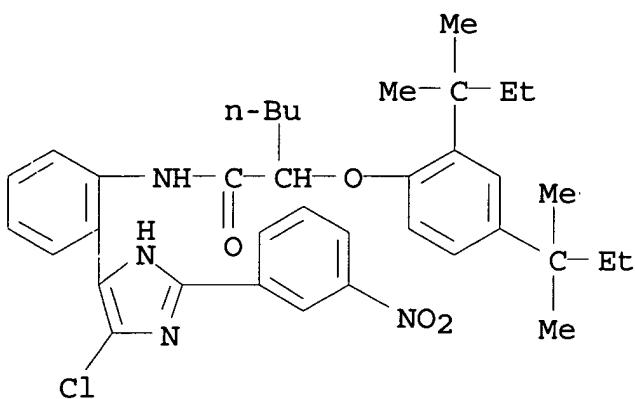


RN 115280-51-8 HCPLUS

CN Hexanamide,

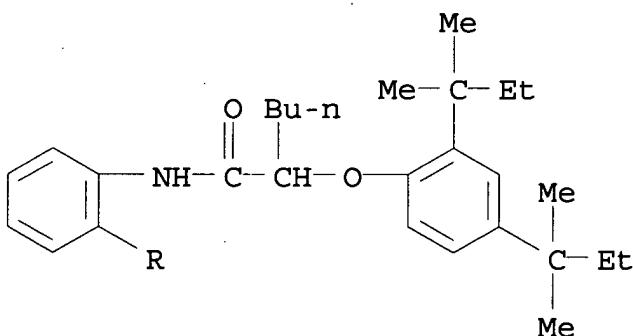
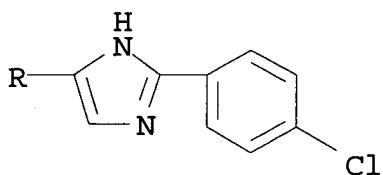
2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[2-[5-chloro-

2-(3-nitrophenyl)-1H-imidazol-4-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 115280-52-9 HCPLUS

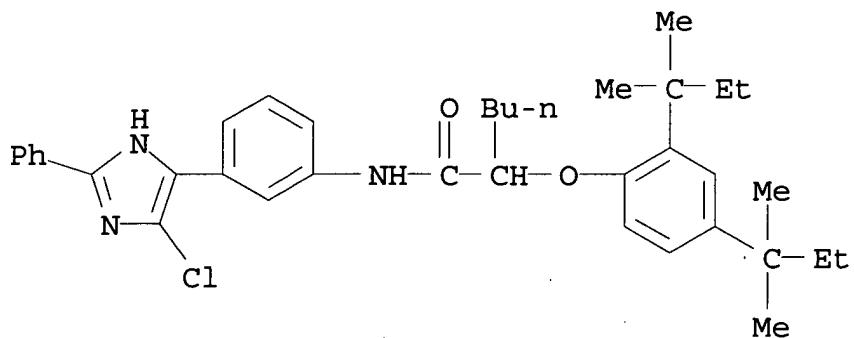
CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[2-[2-(4-chlorophenyl)-1H-imidazol-4-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 115280-54-1 HCPLUS

CN Hexanamide,

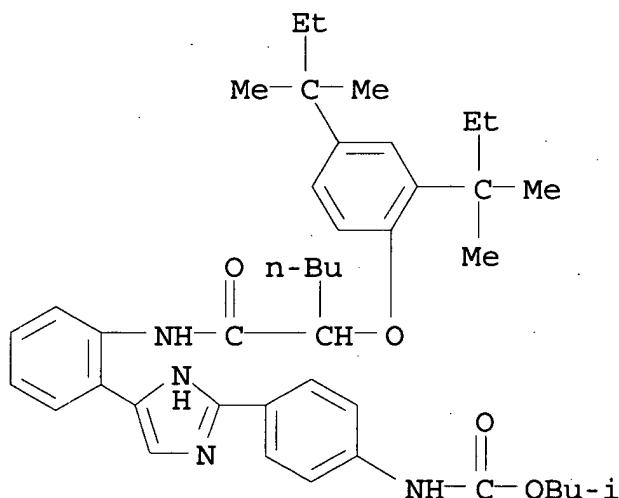
2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[3-(5-chloro-2-phenyl-1H-imidazol-4-yl)phenyl]- (9CI) (CA INDEX NAME)



RN 115280-55-2 HCAPLUS

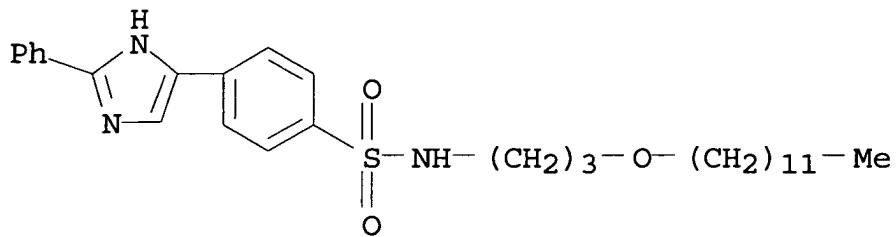
CN Carbamic acid,

[4-[4-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxohexyl]amino]phenyl]-1H-imidazol-2-yl]phenyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)



RN 115280-56-3 HCAPLUS

CN Benzenesulfonamide, N-[3-(dodecyloxy)propyl]-4-(2-phenyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



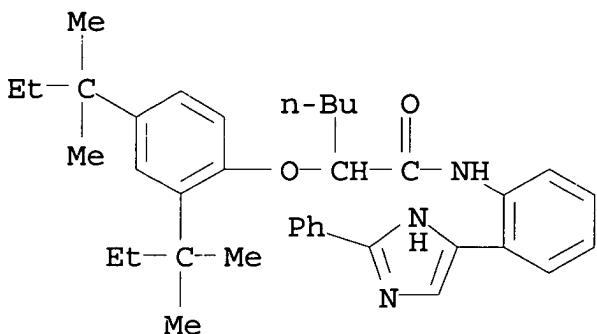
IT 115280-59-6

(reaction of, cyan photog. coupler from)

RN 115280-59-6 HCAPLUS

CN Hexanamide,

2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[2-(2-phenyl-1H-imidazol-4-yl)phenyl]- (9CI) (CA INDEX NAME)



IC ICM G03C007-38

ICA C07D233-54

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)IT Photoimaging **compositions** and processes(containing vapor-deposited colorant and metal or metalloid layers
and photoresist layer for graphic arts)

IT Graphic arts

(photoimaging **compns.** containing vapor-deposited colorant
and metal or metalloid layers and photoresist layer for)

IT Resists

(photo-, photoimaging **compns.** containing vapor-deposited
colorant and metal or metalloid layers and layer of, for
graphic arts)IT 81-88-9 147-14-8 301-10-0, Stannous octoate 7429-90-5,
Aluminum, uses and miscellaneous 9003-35-4, Phenol-formaldehyde

copolymer 87755-35-9, Oil soluble blue g 115280-50-7
 115280-51-8 115280-52-9 115280-54-1
 115280-55-2 115280-56-3
 (cyan photog. coupler)

IT 115280-59-6
 (reaction of, cyan photog. coupler from)

L58 ANSWER 31 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1988:429954 HCPLUS
 DOCUMENT NUMBER: 109:29954
 TITLE: Processing of silver halide color
 photographic materials
 INVENTOR(S): Kurematsu, Masayuki; Koboshi, Shigeharu;
 Higuchi, Moeko
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 56 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----	-----
	JP 62240966	A2	19871021	JP 1985-263566

1985

1122 JP 06075180 B4 19940921
 PRIORITY APPLN. INFO.: JP 1985-263566

1985

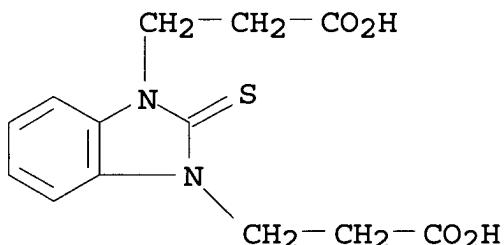
1122

AB A Ag halide color photog. materials containing core-shell type emulsions whose AgI content is ≥ 3.5 mol% is imagewise exposed, color-developed in such a way that the amount of developed

Ag in the Dmax regions is $\leq 50\%$ of the Ag coated on the support, and **bleach-fixed** by using ≥ 2 **bleach-fix** bathes where final bath has I- concentration of $\leq 50\%$ of that in the 1st bath.

Bleach-promoting agents useful for the above **bleach-fix** bath are also claimed.

IT 67427-11-6
 (color photog. bleaching promoting agent)
 RN 67427-11-6 HCPLUS
 CN 1H-Benzimidazole-1,3(2H)-dipropanoic acid, 2-thioxo- (9CI) (CA
 INDEX NAME)



IC ICM G03C007-42
 CC 74-2 (Radiation Chemistry, **Photochemistry**, and
 Photographic and Other Reprographic Processes)
 ST color photog **bleach fixing** multibath
 IT Photographic processing
 (color, **bleach-fixing** in, iodide
 concns. in multibath)
 IT 7681-11-0, Potassium iodide, uses and miscellaneous 10196-04-0,
 Diammonium sulfite 12261-51-7, Ferric
 diethylenetriaminepentaacetate 17099-81-9 29628-68-0
 85959-68-8 105011-28-7 105832-26-6 105832-31-3
 110183-56-7
 (color photog. **bleach-fix** solution containing)
 IT 96-27-5 100-38-9 107-96-0 108-02-1 142-46-1,
 1,2-Hydrazinedicarbothioamide 505-23-7, 1,3-Dithiane
 505-29-3,
 1,4-Dithiane 589-32-2 1072-11-3 2937-81-7,
 1,3,4-Thiadiazole-2,5-diamine 3179-31-5 4201-86-9 5714-33-0
 14128-45-1 17124-82-2 17124-83-3 18144-12-2 18240-16-9
 19926-06-8 20939-16-6 53060-89-2 63210-55-9 64381-91-5
 66309-55-5 67427-10-5 67427-11-6 67427-12-7
 74526-71-9 87819-99-6 87820-00-6 97816-79-0 97816-80-3
 97816-82-5 97816-88-1 97839-04-8 102937-76-8 104749-10-2
 104749-11-3 108769-99-9 115083-67-5
 (color photog. bleaching promoting agent)

L58 ANSWER 32 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1988:158987 HCPLUS
 DOCUMENT NUMBER: 108:158987

TITLE: Acetanilide derivative photographic yellow
 coupler
 INVENTOR(S): Buckland, Paul Richard; Tsoi, Siu Chung
 PATENT ASSIGNEE(S): Eastman Kodak Co., USA; Kodak Ltd.
 SOURCE: Eur. Pat. Appl., 21 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----	-----
	EP 249473	A2	19871216	EP 1987-305161

1987

0611

EP 249473	A3	19890510
EP 249473	B1	19920812
R: DE, FR, GB, NL		
US 4758501	A	19880719
		US 1987-58308

1987

0605

JP 62297846	A2	19871225	JP 1987-143431
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1987

0610

JP 2633853	B2	19970723
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PRIORITY APPLN. INFO.:

GB 1986-14213 A

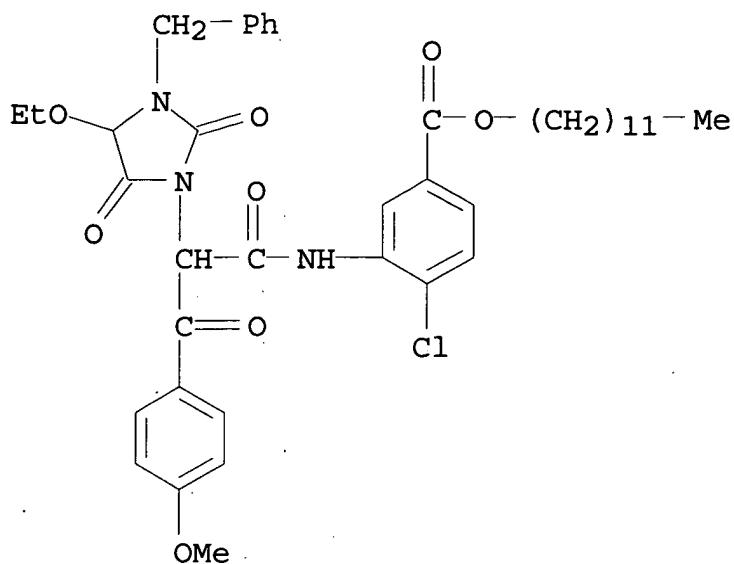
1986

0611

GI

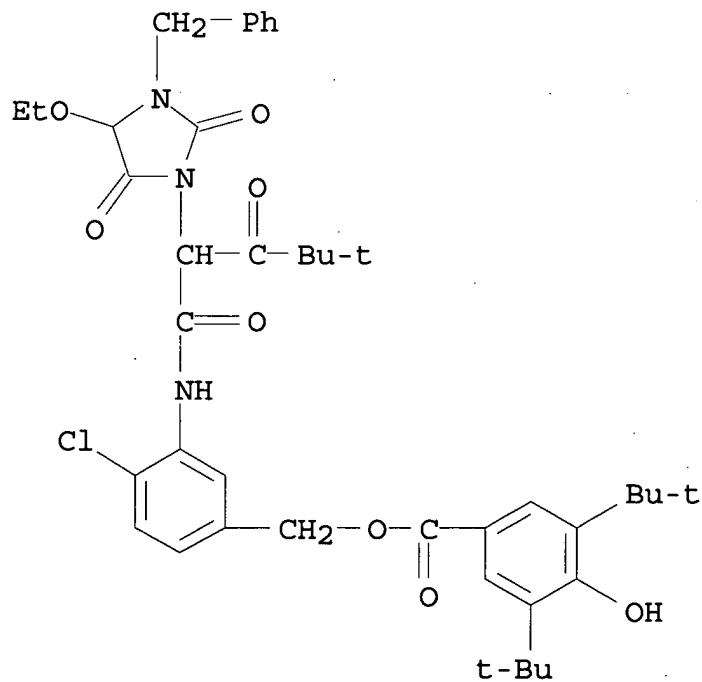
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

*
AB An acetanilide derivative photog. yellow coupler has the general formula I (R = tert-Bu or p-alkoxyphenyl; R1 = H or a group which splits off upon color development; R2 = halogen or Cl-4 alkoxy;
R3 = halogen, alkoxy or alkyl; R4, R5 = alkyl so chosen that the coupler is nondiffusible when present in a photog. material; Z =
a linking group providing image dyes of improved stability). Preferred color developing agents for color Ag halide photog. materials containing the I couplers are p-phenylenediamine derivs.
Thus, a Ag halide photog. emulsion containing the yellow coupler
II was prepared, coated on a support, overcoated with a protective layer, exposed through a step tablet, developed in a solution containing I, bleached, fixed, washed, and dried. The processed photog. material was then exposed to a high-intensity Xe lamp (50 Klx) through a Wratten 2B filter for 2 wk to show a d. decrease (ΔD) of the dye image of 0.06 (from D = 1.7).
IT 70950-45-7 113658-52-9 113658-56-3
113658-58-5 113658-62-1 113658-66-5
(photog. yellow coupler, for forming dye images of improved durability)
RN 70950-45-7 HCPLUS
CN Benzoic acid,
4-chloro-3-[[2-[4-ethoxy-2,5-dioxo-3-(phenylmethyl)-1-imidazolidinyl]-3-(4-methoxyphenyl)-1,3-dioxopropyl]amino]-, dodecyl ester (9CI) (CA INDEX NAME)



RN 113658-52-9 HCAPLUS

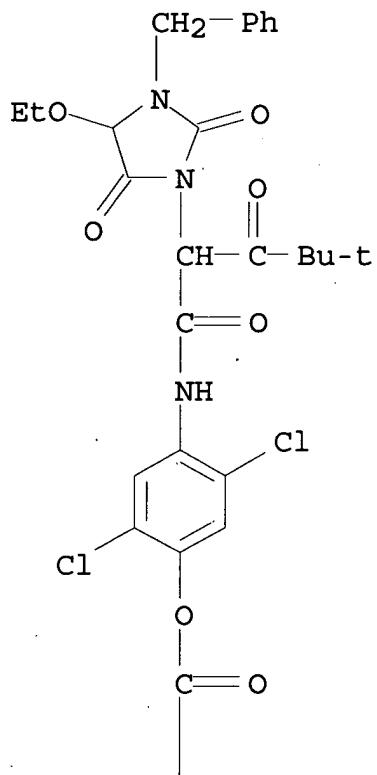
CN Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
[4-chloro-3-[[2-[4-ethoxy-2,5-dioxo-3-(phenylmethyl)-1-
imidazolidinyl]-4,4-dimethyl-1,3-dioxopentyl]amino]phenyl]methyl
ester (9CI) (CA INDEX NAME)



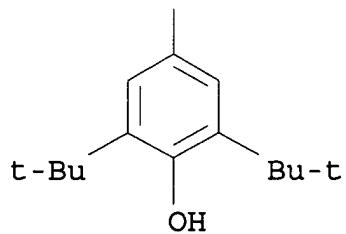
RN 113658-56-3 HCAPLUS

CN Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
 2,5-dichloro-4-[2-[4-ethoxy-2,5-dioxo-3-(phenylmethyl)-1-imidazolidinyl]-4,4-dimethyl-1,3-dioxopentyl]amino]phenyl ester
 (9CI) (CA INDEX NAME)

PAGE 1-A

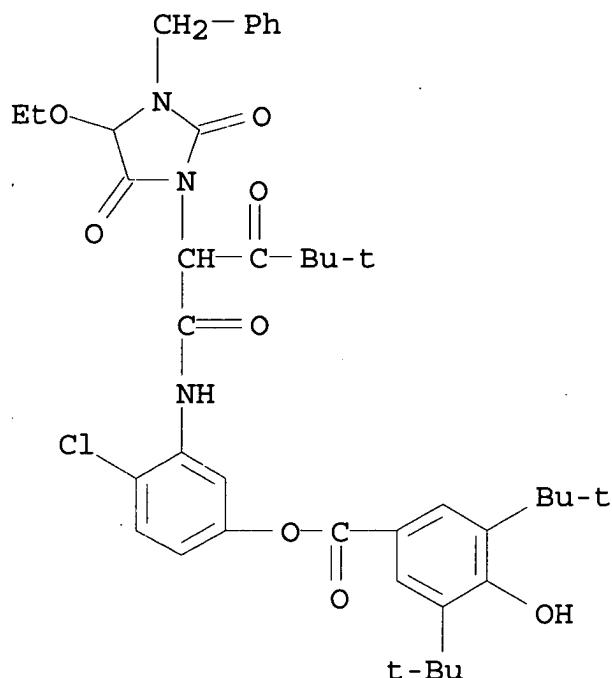


PAGE 2-A



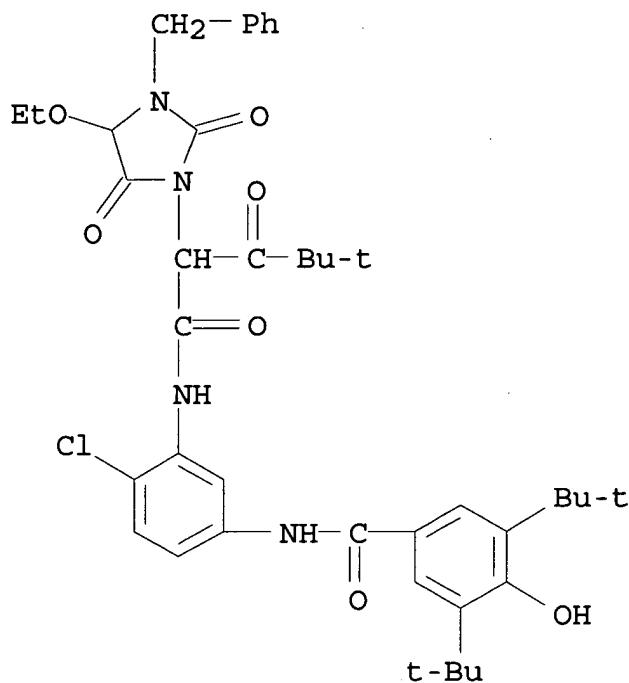
RN 113658-58-5 HCAPLUS

CN Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
4-chloro-3-[[2-[4-ethoxy-2,5-dioxo-3-(phenylmethyl)-1-imidazolidinyl]-4,4-dimethyl-1,3-dioxopentyl]amino]phenyl ester
(9CI) (CA INDEX NAME)



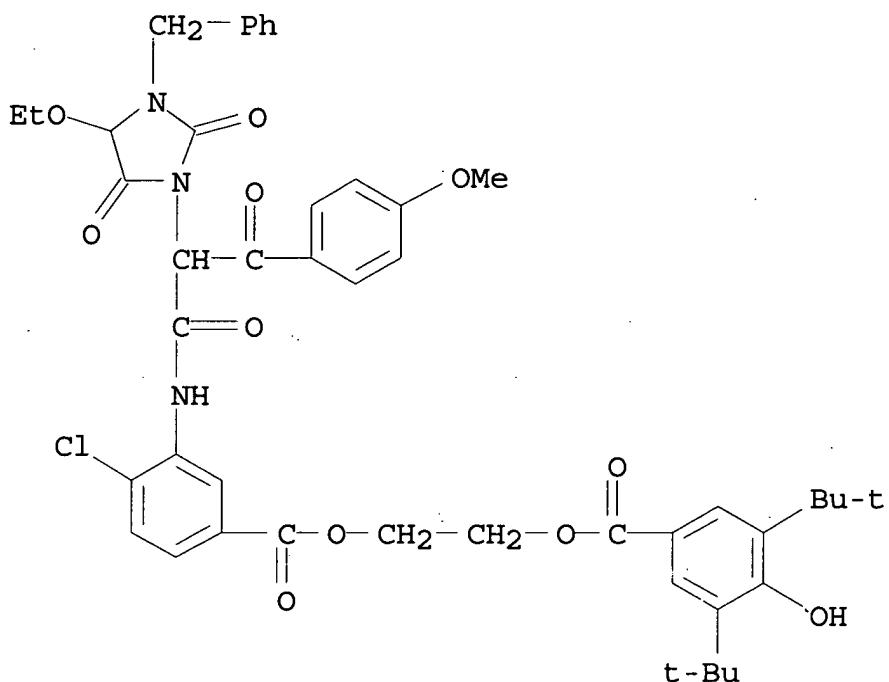
RN 113658-62-1 HCAPLUS

CN 1-Imidazolidineacetamide, N-[5-[[3,5-bis(1,1-dimethylethyl)-4-hydroxybenzoyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-4-ethoxy-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 113658-66-5 HCAPLUS

CN Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,
2-[[4-chloro-3-[[2-[4-ethoxy-2,5-dioxo-3-(phenylmethyl)-1-
imidazolidinyl]-3-(4-methoxyphenyl)-1,3-
dioxopropyl]amino]benzoyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-36

ICA C07C103-78

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)

IT 30744-85-5 **70950-45-7** 86841-17-0 113658-48-3
 113658-49-4 113658-50-7 113658-51-8 **113658-52-9**
 113658-53-0 113658-54-1 113658-55-2 **113658-56-3**
 113658-57-4 **113658-58-5** 113658-59-6 113658-60-9
 113658-61-0 **113658-62-1** 113658-63-2 113658-64-3
 113658-65-4 **113658-66-5** 113658-67-6 113658-68-7
 113658-69-8 113658-70-1 113674-54-7 113674-55-8
 (photog. yellow coupler, for forming dye images of improved durability)

L58 ANSWER 33 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:431164 HCPLUS

DOCUMENT NUMBER: 107:31164

TITLE: Processing silver halide photographic material

INVENTOR(S): Ito, Isamu; Ono, Mitsunori

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
-----	-----	-----	-----
JP 61173246	A2	19860804	JP 1985-13962

1985

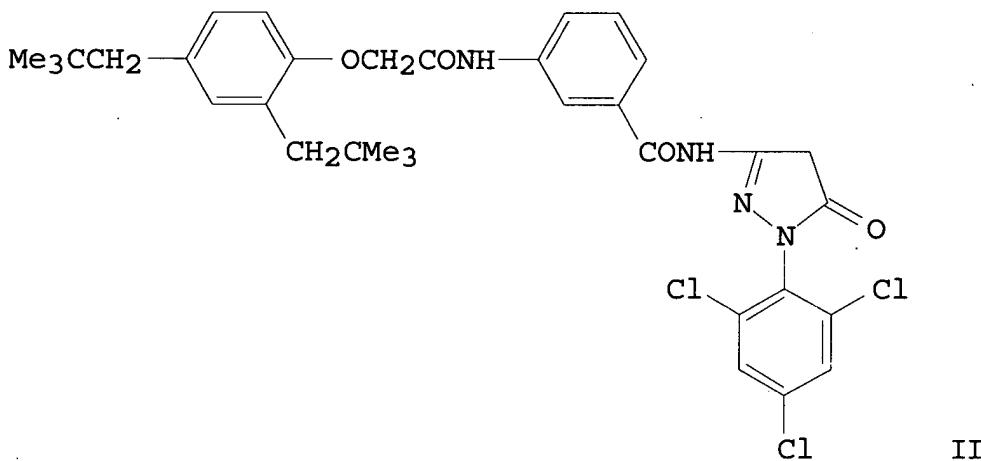
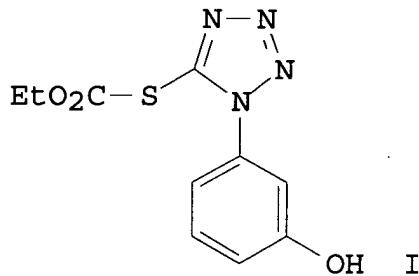
0128

PRIORITY APPLN. INFO.: JP 1985-13962

1985

0128

GI



AB A Ag halide photog. material which contains blocked compds. bearing releasable photog. agents is processed in the presence of a hydroxamic acid derivative having ≥ 1 quaternary ammonium group. The processing method improves the preservation stability of the photog. material and enables rapid development at relatively low pH to provide images having high sensitivity-to-fog ratios. A cellulose triacetate support was coated with a neg.-type Ag(Br,I) emulsion (average grain size, 1.5 μm) layer containing the fog inhibitor precursor I and the magenta coupler II, and with a surface protective layer to form a color photog. film. Following forced preservation under high temperature and humidity, the film was sensitometrically exposed, color-developed with an aqueous developer composition containing 4-(N-ethyl-N-hydroxyethyl)amino-2-methylanilino-2-methylaniline sulfate 5, Na₂SO₃ 5, K₂CO₃ 30, KHCO₃ 1.2, KBr 1.2, NaCl 0.2, N(CH₂CO₂Na)₃ 1.2 g/L, and C₁₁H₂₃CON(OH)(CH₂)₄N+Me₃Br- (III) at 9 \times 10⁻³ mol/L,

bleached, fixed, and stabilized to give a dye
image with a fog level much lower than that given by a control
not
using III in the developer.

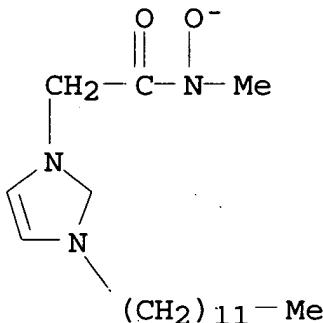
IT 109074-76-2 109074-77-3 109074-78-4

(color photog. developer containing, for color emulsions
containing

photog. agent precursors)

RN 109074-76-2 HCAPLUS

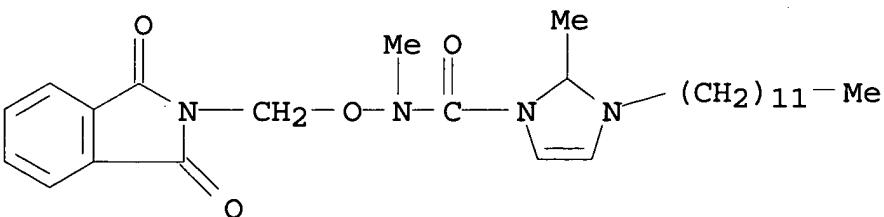
CN 1H-Imidazolium, 1-dodecyl-3-[2-(hydroxymethylamino)-2-oxoethyl]-, inner salt (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 109074-77-3 HCAPLUS

CN 1H-Imidazolium, 1-[[[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methoxy]methylamino]carbonyl]-3-dodecyl-2-methyl-, bromide (9CI) (CA INDEX NAME)

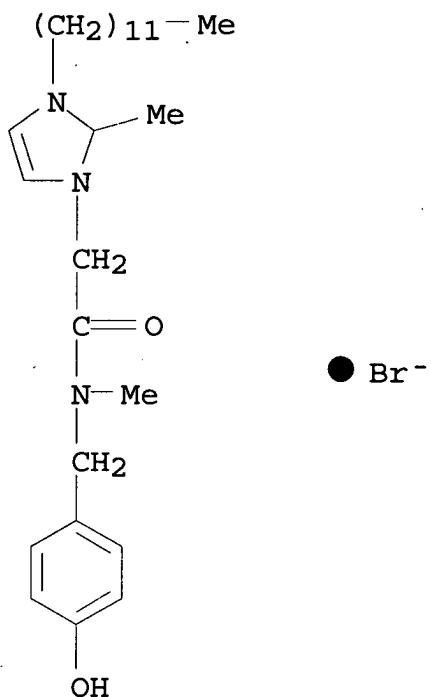


● Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 109074-78-4 HCAPLUS

CN 1H-Imidazolium,
 1-dodecyl-3-[2-[(4-hydroxyphenyl)methyl]methylamino]-2-oxoethyl-2-methyl-, bromide (9CI) (CA INDEX NAME)



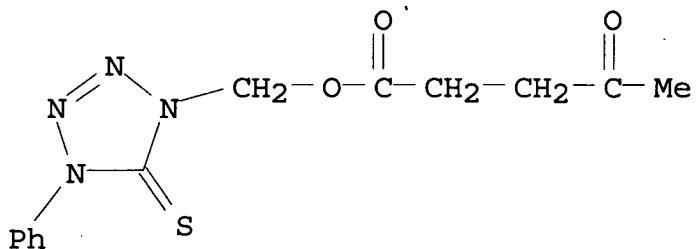
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 IT 96026-13-0

(photog. fog inhibitor precursor, emulsions containing, color
 developers containing hydroxamic acid derivative with
 quaternary

ammonium group for)

RN 96026-13-0 HCPLUS

CN Pentanoic acid, 4-oxo-,
 (4,5-dihydro-4-phenyl-5-thioxo-1H-tetrazol-
 1-yl)methyl ester (9CI) (CA INDEX NAME)



IC ICM G03C005-26
 CC 74-3 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 IT 109074-74-0 109074-75-1 **109074-76-2**
 109074-77-3 109074-78-4 109074-79-5
 (color photog. developer containing, for color emulsions
 containing
 photog. agent precursors)
 IT 39720-25-7 95153-81-4 95966-17-9 **96026-13-0**
 99893-20-6
 (photog. fog inhibitor precursor, emulsions containing, color
 developers containing hydroxamic acid derivative with
 quaternary
 ammonium group for)

L58 ANSWER 34 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1987:224358 HCPLUS
 DOCUMENT NUMBER: 106:224358
 TITLE: Pyrazolo [3,2-c]-s-triazole photographic
 couplers, their use, synthesis and
 intermediates therefor
 INVENTOR(S): Buckland, Paul Richard; Leyshon, Llewellyn
 James
 PATENT ASSIGNEE(S): Eastman Kodak Co., USA; Kodak Ltd.
 SOURCE: Eur. Pat. Appl., 25 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE				
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EP 200354	A2	19861210	EP 1986-302222	

1986

0326

EP 200354	A3	19880113
EP 200354	B1	19900704
R: BE, DE, FR, GB, NL		
CA 1283919	A1	19910507
		CA 1986-504200

1986

0314

JP 61292143

A2 19861222

JP 1986-75641

1986

0403

JP 07119989
US 4777121

B4 19951220
A 19881011

US 1987-128377

1987

1203

PRIORITY APPLN. INFO.:

GB 1985-8756

A

1985

0403

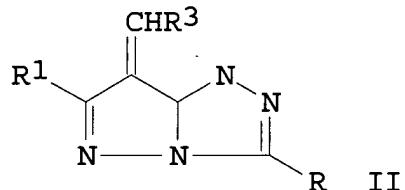
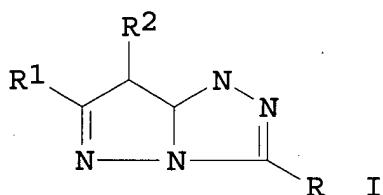
US 1986-845304

A1

1986

0328

GI



AB Pyrazolo[3,2-c]-s-triazole derivs. having the general formula I
or

II [R = (substituted) aryl; R1 = (substituted) tert-alkyl; R2, :CHR3 = moiety which is displaced upon reaction with the oxidation

product of a primary aromatic amino photog. developing agent] are used as magenta couplers. The couplers I and II give dye images of good light stability. The light stability can be further enhanced by certain tetraalkoxybenzenes. A method of synthesis
of

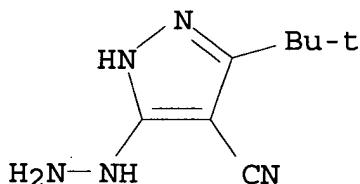
the couplers, together with necessary intermediate compds., is also claimed. A composition obtained by mixing a standard Ag(Br,Cl) emulsion, di-Bu phthalate, 6-tert-butyl-3-(4-decyl-2,3,5,6-tetramethylphenyl)-1H-pyrazolo[3,2-c]-s-triazole (III) gelatin, Na diisopropylnaphthalenesulfonate, bis(vinylsulfonylmethyl) ether, Et acetate, and H₂O was coated on a transparent support, dried, exposed, developed in a conventional developer, and bleach-fixed to give a dye image with λ_{max} 545 μ m. The obtained dye image (d. 1.10) was exposed to a high-intensity fluorescent light source (13 klx) for 300 h to show a d. reduction of only 0.10. A photog. material containing III, 1,2,3,4-tetrabutoxybenzene was exposed and processed to give an image (d. 1.15) which showed a d. reduction of 0.08 after irradiating with the above light source for 282 h vs. 0.11 for a IV-free control.

IT 108490-41-1
(reaction of, pyrazolotriazole derivative magenta photog. coupler

from)

RN 108490-41-1 HCPLUS

CN 1H-Pyrazole-4-carbonitrile, 3-(1,1-dimethylethyl)-5-hydrazino-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IC ICM G03C007-38
ICS C07D487-04

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 108490-40-0 108490-41-1 108490-42-2 108490-43-3
108490-44-4, 1-Acetyl-6-tert-butyl-3-(2,4,6-trimethyl-3-nitrophenyl)-1H-pyrazolo[3,2-c]-s-triazole 108490-45-5,

1-Acetyl-6-tert-butyl-3-(3-amino-2,4,6-trimethylphenyl)-1H-pyrazolo[3,2-c]-s-triazole 108490-46-6,
 1-Acetyl-6-tert-butyl-7-chloro-3-(2,4,6-trimethyl-3-nitrophenyl)-1H-pyrazolo[3,2-c]-s-triazole 108490-47-7 108490-48-8 108490-49-9
 (reaction of, pyrazolotriazole derivative magenta photog. coupler from)

L58 ANSWER 35 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:616623 HCAPLUS
 DOCUMENT NUMBER: 105:216623
 TITLE: Processing of light-sensitive silver halide color photographic material
 INVENTOR(S): Kurematsu, Masayuki; Koboshi, Shigeharu
 PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd. , Japan
 SOURCE: Eur. Pat. Appl., 99 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	EP 186169	A2	19860702	EP 1985-116419

1985

1221

EP 186169	A3	19880706
EP 186169	B1	19910925
R: BE, DE, GB		
CA 1252329	A1	19890411
		CA 1984-459861

1984

0727

CA 1244703	A1	19881115	CA 1984-460455
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1984

0807

JP 61151650	A2	19860710	JP 1984-280965
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1984

1226

JP 05002977	B4	19930113	
AU 8551571	A1	19860703	AU 1985-51571

1985

1223

AU 588844	B2	19890928	
US 4749642	A	19880607	US 1987-21532

1987

0226

PRIORITY APPLN. INFO.: JP 1984-280965 A

1984

1226

US 1985-811000 A1

1985

1219

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

*

AB A developed Ag halide color photog. material is treated with a fixing or **bleach-fixing** solution and, without the washing step, treated with a washless stabilizing solution in the presence of ≥ 1 of the compds. I, II, III, and IV [R-R5 = H, halogen, OH, alkyl, alkoxy, SO₃H, NHCH₂SO₃M (M = cation); R₆, R₈ = OH, (substituted) alkoxy, CN, CF₃, CO₂R₁₈, CONHR₁₈, NHCOR₁₈ (R₁₈ = H, alkyl, aryl), NH₂, NH₂ substituted with C₁-4 alkyl, V (q, r = 1,2; X₁ = O, S, CH₂); R₇, R₉ = H, alkyl, aryl, heterocyclyl; l = 0,1,2; m, n = 0,1; R₁₀-R₁₃ = H, alkyl, aryl, aralkyl, heterocyclyl, ≥ 1 of R₁₀-R₁₃ \neq H; X = 0,5; O = 1, 2, 3; R₁₄ = OH, alkyl, alkoxy, substituted alkoxy, CN, CF₃, NH₂, NH₂

substituted with C1-4 alkyl, V (q, r = 1, 2; X1 = O, S, CH2), CO2R18, CONHR18, NHCOR18 (R18 = H, alkyl, aryl); R15 = alkyl, aryl, heterocyclyl; R16 = H, alkyl, Cl, alkoxy; R17 = OR19, NR20R21 (R19,R20,R21 = H, alkyl; NR20R21 may form a ring); p = 1, 2]. The new photog. processing method makes it possible to largely reduce the amount of water for washing, thus providing reservation of water resources and environmental protection. Thus, a polyethylene-coated paper support was coated with a blue-sensitive Ag halide emulsion layer, a gelatin layer, a green-sensitive Ag halide emulsion layer, a gelatin layer, a red-sensitive Ag halide emulsion layer, and a gelatin layer to give a color photog. film, exposed, color developed, **bleach-fixed**, stabilized in a solution containing 5-chloro-2-methyl-4-isothiazoline-3-one 0.03, 2-methyl-4-isothiazoline-3-one 0.03, 1-hydroxyethylidene-1,1-diphosphonic acid 0.5, Mg(NO3)2 0.04, EtOH 7.0 g, VI 10 mg, and H2O to 1 L,

and

dried to give a print with reduced yellow stain in the unexposed area after storage for a long time and decreased generation of a thin film on the liquid surface when the stabilizing solution was left to stand for a long time as compared with a control using

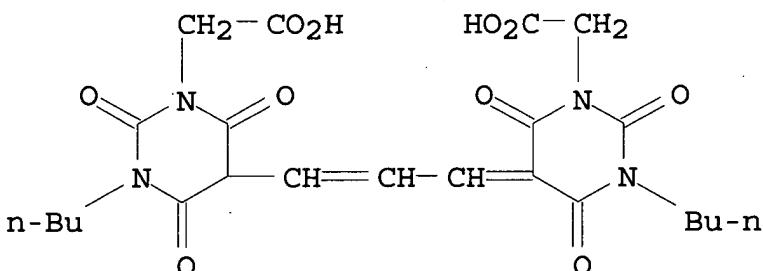
a stabilizing solution containing no VI.

IT 63059-36-9

(washless photog. stabilizing solns. containing, for color processing)

RN 63059-36-9 HCPLUS

CN 1(2H)-Pyrimidineacetic acid, 3-butyl-5-[3-[1-butyl-3-(carboxymethyl)hexahydro-2,4,6-trioxo-5-pyrimidinyl]-2-propenylidene]tetrahydro-2,4,6-trioxo- (9CI) (CA INDEX NAME)



IC ICM G03C007-40

ICA G03C005-395

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 63059-36-9 94421-79-1 104881-81-4

(washless photog. stabilizing solns. containing, for color processing)

L58 ANSWER 36 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:505709 HCAPLUS
 DOCUMENT NUMBER: 105:105709
 TITLE: Processing photosensitive silver halide color photographic material
 INVENTOR(S): Koboshi, Shigeharu; Kobayashi, Kazuhiro;
 Kuse,
 PATENT ASSIGNEE(S): Satoru
 Konishiroku Photo Industry Co., Ltd. , Japan
 SOURCE: Eur. Pat. Appl., 69 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
	-----	-----	-----	-----
	EP 175153	A2	19860326	EP 1985-110372

1985

0819

EP 175153	A3	19881117
EP 175153	B1	19910327
R: DE, GB		
JP 61050146	A2	19860312
		JP 1984-172571

1984

0820

JP 03076732	B4	19911206
JP 61050147	A2	19860312
		JP 1984-172572

1984

0820

JP 03076733	B4	19911206
JP 61072247	A2	19860414
		JP 1984-193607

1984

0914

JP 04002177 B4 19920116
JP 61072248 A2 19860414 JP 1984-193608

1984

0914

JP 04002178 B4 19920116
AU 8546417 A1 19860227 AU 1985-46417

1985

0819

AU 599573 B2 19900726
US 5075202 A 19911224 US 1990-581210

1990

0910

PRIORITY APPLN. INFO.: JP 1984-172571 A

1984

0820

JP 1984-172572 A

1984

0820

JP 1984-193607 A

1984

0914

JP 1984-193608 A

1984

0914

US 1985-766119 B1

1985

0815

US 1987-8141

B1

1987

0122

US 1987-142344

B1

1987

1228

US 1989-379654

B1

1989

0711

AB A photog. processing method is described which causes less stains at cut surfaces of a photog. paper and provides stable dye images.

The method involves imagewise exposure of a photosensitive material containing a Ag halide emulsion layer on (1) a support coated

with an electron-beam cured resin or (2) one side or both sides of

a support of an opaque thermoplastic film comprising a polyester film coated on one or both sides with fine particles of the white pigment and/or a polyester film containing the white particles dispersed in it, color developing, **bleach-fixing**, and stabilizing without any H₂O washing step. Thus, a paper support was coated on both sides with a composition containing Araldite CY 179 62 4,4-dimethyldiphenyliodonium hexafluoroacetate 3, TiO₂ 35 weight parts, electron-beam irradiated, and on one side

coated with a Ag halide emulsion containing a coupler. The element

was imagewise exposed, developed for 3 min 15 s in a compn . containing K₂CO₃ 30, Na₂SO₃ 2, hydroxyamine sulfate 2.2, KBr 1.2,

diethylenetriaminepentaacetic acid 2, NaOH 3.4, N-ethylene-N-β-hydroxyethyl-3-methyl-4-aminoaniline HCl 4.6 g, H₂O to 1 L (pH 10.05) at 37.8°, **bleach-fixed** for 1 min 30 s using a solution containing EDTA Fe-NH₃ salt 50, diethylenetriaminepentaacetic acid 10 g, 70% ammonium thiosulfate 200, 40% ammonium sulfite 10 mL, H₂O to 1 L (pH 6.8)

at 37.8°, stabilized for 2 min 10 s in a solution containing 2-methyl-4-isothiazolin-3-one 0.004, 2-methyl-5-chloro-4-isothiazolin-3-one 0.02, 1-hydroxyethylidene-1,1'-diphosphoric acid 0.01, 2-octyl-4-isothiazolin-3-one 0.03, MgCl₂ 0.17, BiCl₃ 0.14, poly(vinylpyrrolidone) 0.1, nitriloacetic acid 3, 28% aqueous

NH₄OH 3 g, H₂O to 1 L (pH 7.1) at 30-34°. The obtained sample was superior to a control (subjected to the processing with

H₂O washing in place of stabilization) in edge contamination, in stain in the image parts, and also in dye **concentration**

IT 9003-39-8

(color photog. processing **compns.** containing)

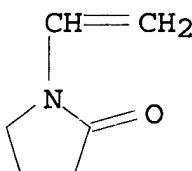
RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IC ICM G03C001-80
ICS G03C007-30

CC 74-2 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

IT Polyesters, uses and miscellaneous

(photog. color element with paper support coated with electron beam-curable **composition** containing, processing method for)

IT 67-43-6 139-13-9 584-08-7 869-52-3D, iron complex
1310-73-2, uses and miscellaneous 1336-21-6 2682-20-4
2809-21-4 7439-89-6D, complex with

triethylenetetraminehexaaceti

c acid 7757-83-7 7758-02-3, uses and miscellaneous

7783-18-8

7786-30-3, uses and miscellaneous 7787-60-2 9003-39-8

10196-04-0 13973-61-0 21265-50-9 26172-55-4 26530-20-1

103481-24-9 103690-85-3 104002-61-1

(color photog. processing **compns.** containing)

IT 673-48-3 7727-43-7 13048-33-4 13463-67-7, uses and

miscellaneous 15625-89-5 25038-59-9, uses and miscellaneous
 25068-38-6 25085-98-7 61245-67-8
 (photog. color element with paper support coated with electron
 beam-curable **composition** containing, processing method for)

L58 ANSWER 37 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:139226 HCPLUS
 DOCUMENT NUMBER: 104:139226
 TITLE: Tannable multicolored material
 INVENTOR(S): Macioch, Michael T.
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA
 SOURCE: U.S., 8 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
-----	-----	-----	-----
-----	-----	-----	-----
US 4544620	A	19851001	US 1984-614296
1984			
0525			
EP 162630	A2	19851127	EP 1985-303249
1985			
0508			
EP 162630	A3	19871014	
EP 162630	B1	19890809	
R: BE, CH, DE, FR, GB, IT, LI			
BR 8502303	A	19860121	BR 1985-2303
1985			
0516			
JP 60260945	A2	19851224	JP 1985-110637
1985			
0524			
PRIORITY APPLN. INFO.:		US 1984-614296	A
1984			

0525

AB A color photog. element for tanning development consists of a primed support, a layer of colloidal Ag, a layer of sensitized Ag halide emulsion in hardener-free gelatin, and ≥ 1 pigment or dye dispersed in ≥ 1 of the colloidal Ag or photosensitive layer. Thus, a polyester-paper support was coated with an solution

containing gelatin 0.4573, 4-chloro-3-methylphenol 0.008, Cosmopon LM

solution 0.034, a colloidal Ag dispersion 0.216 g/m² (Ag), and NaOH

(to pH 6.5), coated with a composition containing gelatin 0.3875, 4-chloro-3-methylphenol 0.0084, Na dioctylsulfosuccinate 0.2957, and Cosmopon LM 0.0216 g/m², coated with a layer containing a S-sensitized Ag(Cl,Br) emulsion (70% AgBr) 0.4698 (Ag), 4-chloro-3-methylphenol 0.008, a yellow pigment dispersion (containing

Magestic Yellow X 2600, Cyan Phthalo Blue, Magenta Bonadur Red, H₂O; Tamol, MeOH, and gelatin) 0.2817, 7-hydroxy-3-methyl-2-methylthio-5-thiazolo[1,5-a]-pyrimidine 0.0083, Triton X-200 0.2707, 5-nitroindazole 0.00012, 2,5-diisooctylhydroquinone 0.1460, hydroquinone 0.0963, phenidone 0.0124 g/m², and citric acid (pH 5.5), overcoated with a layer containing gelatin 0.4802, 4-chloro-3-methylphenol 0.008, Maprofix 563 0.0028, and lauric acid diethanolamine 0.0161 g/m², imagewise exposed (1000-W lamp) for 10 s, developed in a tanning activator for 32 s at 32° containing an alkaline solution containing Na₂SO₃ 12, Na₂CO₃ 2 weight%, and NaHCO₃

to pH 10.1 in 1 L, washed with warm H₂O for 65 s, and then treated

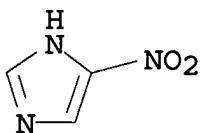
with Kodalk EP-2 **bleach-fix.**

IT 3034-38-6

(photog. multicolor element for tanning development containing)

RN 3034-38-6 HCPLUS

CN 1H-Imidazole, 4-nitro- (9CI) (CA INDEX NAME)



IC ICM G03C001-06

ICS G03C007-10
 NCL 430264000
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 IT 59-50-7 92-43-3 123-31-9, uses and miscellaneous 147-14-8
 3034-38-6 4531-49-1 57214-69-4 61951-81-3
 61968-96-5 101026-88-4 101027-02-5 101027-03-6
 101027-18-3
 101027-45-6 101186-35-0 101216-84-6
 (photog. multicolor element for tanning development containing)

L58 ANSWER 38 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:99430 HCPLUS
 DOCUMENT NUMBER: 104:99430
 TITLE: Method of dye image formation
 INVENTOR(S): Hirabayashi, Shigeto; Oya, Yukio
 PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----	-----
	-----	-----	-----	-----
	JP 60165651	A2	19850828	JP 1984-21385

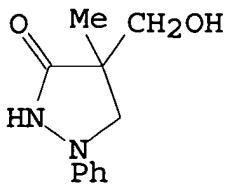
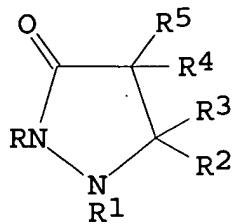
1984

0208
 PRIORITY APPLN. INFO.: JP 1984-21385

1984

0208

GI



AB An imagewise-exposed Ag halide photog. material that contains ≥ 1 compound having the formula I [R = H, acetyl; R1 = aryl; R2-R5 = (independently) H, alkyl, aryl], and having an average

AgBr

content (in total Ag halide) $\leq 50\%$ is treated with a color developer containing Br⁻ corresponding to ≥ 1.3 g/L KBr. This processing method reduces the amount of replenisher required for bulky continuous processing, and provides high image d. despite the high Br⁻ concentration. Thus, a photog. color paper was prepared by coating a polyethylene-coated paper support with 8 layers, which were a layer containing 30 mg II and gelatin, a blue-sensitive emulsion layer (AgBr 50%) containing a yellow coupler,

an intermediate gelatin layer, a green-sensitive emulsion layer (AgBr 30%) containing a magenta coupler, an intermediate gelatin layer, a red-sensitive emulsion layer (AgBr 30%) containing a cyan

coupler, an intermediate gelatin layer, and a surface gelatin layer. A color developer for the exposed film contained benzyl alc. 8 mL, NH₂OH sulfate 2, KBr 1.4, NaCl 1.0, K₂SO₃ 2.0, triethanolamine 2.0, N-ethyl-N-β-methanesulfonamidoethyl-3-methyl-4-aminoaniline sulfate 4.5, K₂CO₃ 32 g, 60% 1-hydroxyethylidene-1,1-disulfonic acid 1.5, fluorescent brightener (50% solution of Whitex BB) 2 mL, and water 1 L (pH 10.1).

After bleach-fixing, the images showed a high color reflection d. (2.50-2.54) and low fog (0.03). A control film having a 65% average AgBr content showed a reflection d. 1.98-2.26, and a control having a 37% average AgBr content but not

containing II gave a d. 2.01-2.21. Continuous development tests using

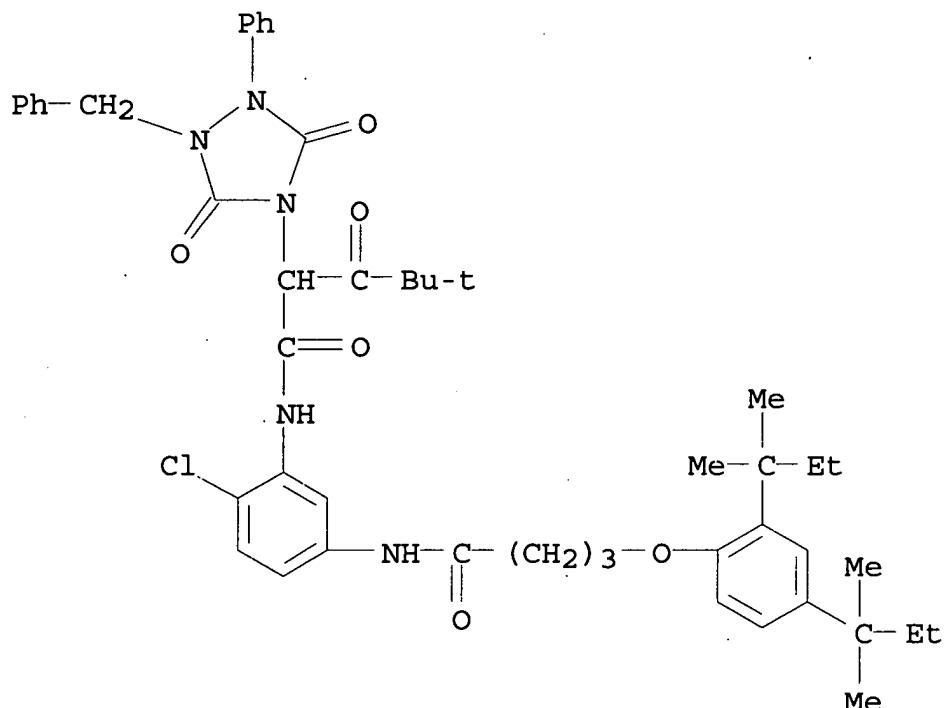
a replenisher showed very stable color d. and fog.

IT 61119-59-3

(photog. multilayer paper with gelatin layer containing pyrazolidinone derivative and emulsion layer containing)

RN 61119-59-3 HCPLUS

CN 1,2,4-Triazolidine-4-acetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]- α -(2,2-dimethyl-1-oxopropyl)-3,5-dioxo-1-phenyl-2-(phenylmethyl)-(9CI) (CA INDEX NAME)



IC ICM G03C007-26

ICS G03C007-30

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 31037-84-0 54636-84-9 61119-59-3

(photog. multilayer paper with gelatin layer containing pyrazolidinone derivative and emulsion layer containing)

L58 ANSWER 39 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:12986 HCPLUS

DOCUMENT NUMBER: 104:12986

TITLE: Color photographic recording material for preparing colored undertone images

INVENTOR(S): Wolff, Erich; Renner, Guenter; Kunitz, Friedrich Wilhelm

PATENT ASSIGNEE(S): Agfa-Gevaert A.-G. , Fed. Rep. Ger.

SOURCE: Ger. Offen., 70 pp.

DOCUMENT TYPE: CODEN: GWXXBX
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: German
 PATENT INFORMATION: 1

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----	-----
	DE 3340270	A1	19850515	DE 1983-3340270
1983				
1108	EP 142086	A2	19850522	EP 1984-112972
1984				
1027	EP 142086	A3	19880316	
	EP 142086	B1	19890913	
	R: CH, DE, IT, LI, NL			
	US 4581324	A	19860408	US 1984-666265
1984				
1029	JP 60117249	A2	19850624	JP 1984-233367
1984				
1107	JP 05025108	B4	19930409	
PRIORITY APPLN. INFO.:				DE 1983-3340270 A
1983				
1108				
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

*
AB Color reflection images having improved stability to light, heat, and moisture and improved storage stability while retaining their original color character are prepared by using a light reflective support coated with coupler-containing red, green, and blue Ag halide

emulsion layers. The yellow coupler is a pivaloylacetanilide-derived 2-equivalent coupler, the magenta coupler is a 3-anilinopyrazolone derivative, and the cyan coupler has the general

formula I (R = H or halogen; R₁ = C₂-C₅ alkyl; R₂ = H or C₁-C₅ alkyl; R₃ = acyl; R₄ = H or a group cleavable on coupling).

Thus,

a polyethylene-coated support was coated with a layer composition containing gelatin, KNO₃, and chrome alum, a blue-sensitive gelatin-Ag(Br,Cl) emulsion layer containing II, a gelatin interlayer containing 2,5-dioctyl hydroquinone and tricresyl

phosphate, a green-sensitive gelatin-Ag(Br,Cl) emulsion layer containing III, a gelatin interlayer containing 2,5-dioctylhydroquinone,

tricresyl phosphate, Tinuvin 343, a red-sensitive gelatin-Ag(Br,Cl) emulsion layer containing IV, a protective layer

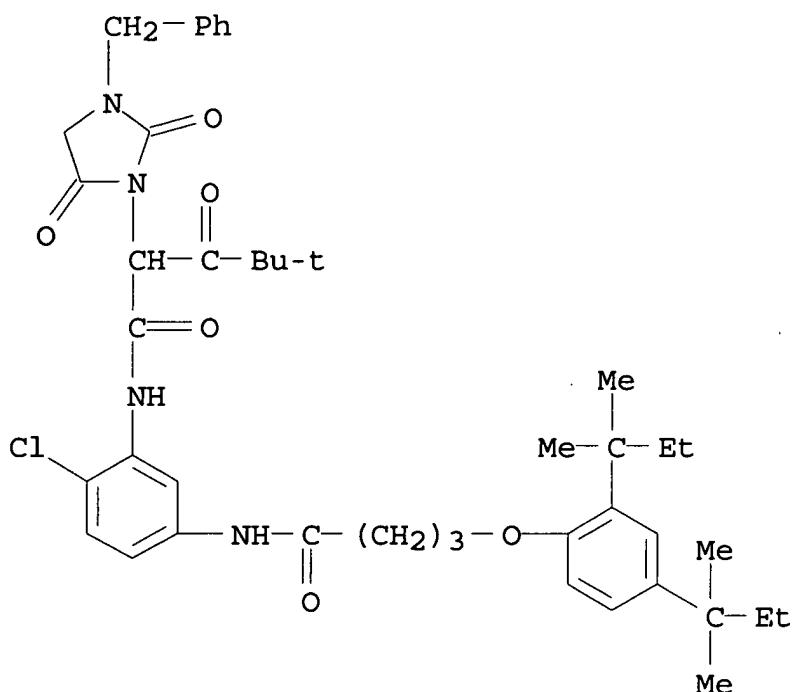
containing gelatin and Tinuvin 343, and a hardening layer. The resultant material was exposed through a gray wedge, color developed, bleach-fixed, and then placed in a Xenotest apparatus (40% relative humidity; 25°; 5 + 106 lx-h) and the color d. decrease (at D = 1.0) determined to be 12 (yellow), 8 (magenta), and 7% (cyan) vs. 55, 62, and 55%, resp., for a control containing V, VI, and VII.

IT 55697-63-7 92683-20-0 99151-90-3

(photog. yellow coupler, for color reflection images with improved stability)

RN 55697-63-7 HCPLUS

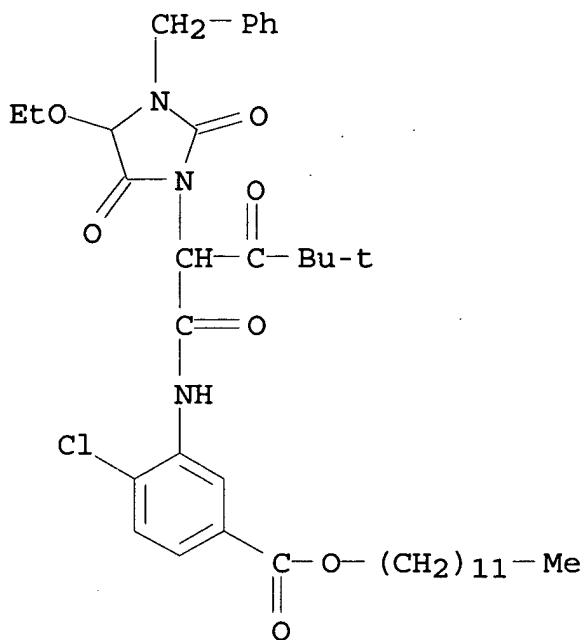
CN 1-Imidazolidineacetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-α-(2,2-dimethyl-1-oxopropyl)-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



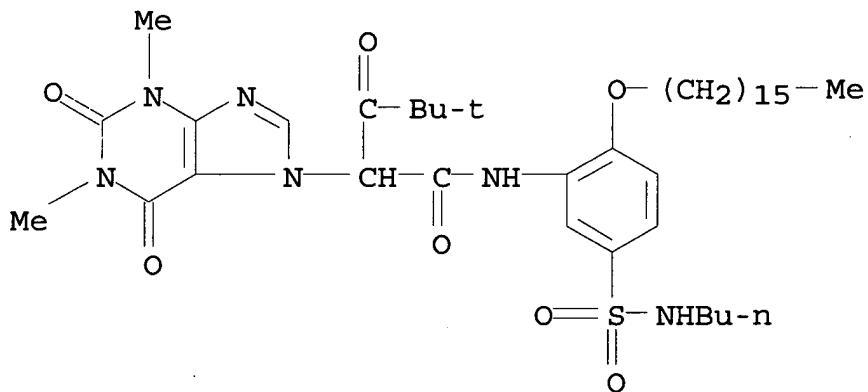
RN 92683-20-0 HCPLUS

CN Benzoic acid,

4-chloro-3-[[2-[4-ethoxy-2,5-dioxo-3-(phenylmethyl)-1-imidazolidinyl]-4,4-dimethyl-1,3-dioxopentyl]amino]-, dodecyl ester (9CI) (CA INDEX NAME)



RN 99151-90-3 HCPLUS

CN 7H-Purine-7-acetamide, N-[5-[(butylamino)sulfonyl]-2-(hexadecyloxy)phenyl]- α -(2,2-dimethyl-1-oxopropyl)-1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxo- (9CI) (CA INDEX NAME)

IC ICM G03C007-32

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 30744-85-5 55697-63-7 56912-29-9 84184-25-8
92683-20-0 94087-64-6 99141-80-7 99151-90-3

(photog. yellow coupler, for color reflection images with improved stability)

L58 ANSWER 40 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1984:129801 HCAPLUS
 DOCUMENT NUMBER: 100:129801
 TITLE: Silver halide color photographic photosensitive material
 INVENTOR(S): Kato, Kazuo; Watanabe, Yoshikazu; Kumashiro, Kenji; Shimba, Satoru
 PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd. ; Japan
 SOURCE: Eur. Pat. Appl., 80 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
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EP 85580	A1	19830810	EP 1983-300533

1983

0202

R: DE, FR, GB			
JP 58154842	A2	19830914	JP 1982-16667

1982

0203

JP 02033140	B4	19900725	
US 4480028	A	19841030	US 1983-461938

1983

0128

PRIORITY APPLN. INFO.: JP 1982-16667 A

1982

0203

GI For diagram(s), see printed CA Issue.

AB A color photog. material producing a high maximum color d. contains

≥ 1 magenta coupler I (R = benzamido, anilino, phenylvreido radical substituted by sulfonylamino or aminosulfonyl radical; R1 = aryl, heterocyclic radical) and ≥ 1 development inhibitor releasing (DIR) compound containing a radical II (R2 = H, halogen,

acylamino, alkyl, benzothiazolinylidenamino, Ph substituted alkoxy) or III (X = atoms necessary to complete 5- or -6-member ring). Thus, a triacetate film support was coated with a composition containing 1 mol of a Ag(Br,I) emulsion containing 6 mol.%

of AgI and 4-hydroxy-6-methyl-1,3,3a,7-tetrazaindene, saponin, 1,2-bis(vinylsulfonyl)ethane, and a mixture containing coupler IV 20,

DIR compound V 1 g, tricresyl phosphate 10, EtOAc 50, 10% aqueous Alkanol 8 20, 10% aqueous gelatin 100 mL, imagewise exposed, color

developed in a solution containing 4-amino-3-methyl-N-ethyl-N-(β -hydroxyethyl)aniline sulfate 4.75, Na2SO3 4.25, hydroxylamine.1/2 sulfate 2, K2CO3 37.5, KBr 1.3, tri-Na nitrilacetate 2.5, KOH 1 g,

H2O to 1 g (pH = 10), bleached, fixed, and stabilized to give an image with maximum d. 1.9, relative speed 105,

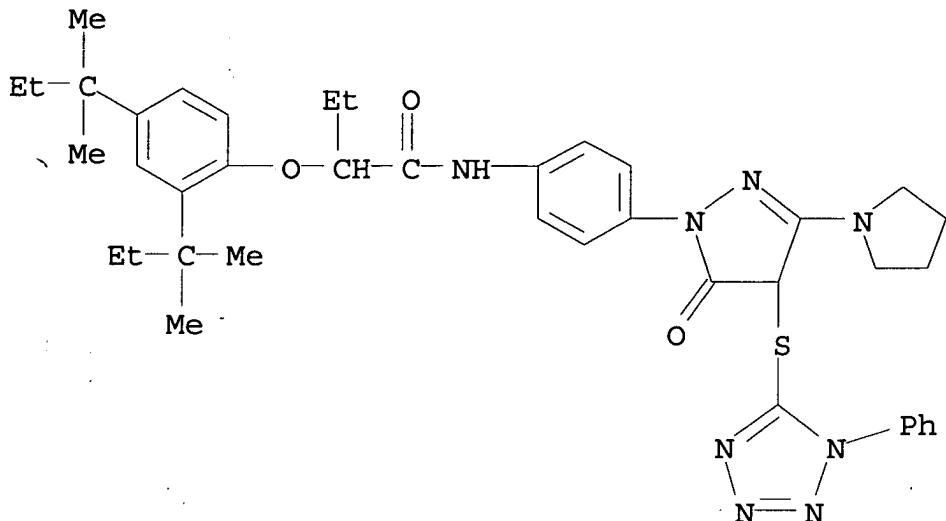
Δ fog1 and Δ fog2 (values of increase in fog of the sample when processed in the color developer of pH = 10.2 and kept at 40°) 0.04 and 0.04, resp.

IT 30818-18-9 88967-53-7

(photog. material containing pyrazolone magenta coupler and, for increased color d.)

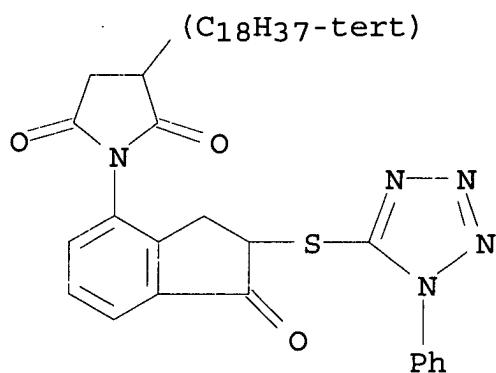
RN 30818-18-9 HCPLUS

CN Butanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[4,5-dihydro-5-oxo-4-[(1-phenyl-1H-tetrazol-5-yl)thio]-3-(1-pyrrolidinyl)-1H-pyrazol-1-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 88967-53-7 HCPLUS

CN 2,5-Pyrrolidinedione, 1-[2,3-dihydro-1-oxo-2-[(1-phenyl-1H-tetrazol-5-yl)thio]-1H-inden-4-yl]-3-tert-octadecyl- (9CI) (CA INDEX NAME)



IC G03C007-26; G03C007-32

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 28020-34-0

of
(photog. color development of material containing combination
pyrazolone magenta coupler and DIR compound with composition
containing)

IT 30818-18-9 88967-53-7

for
(photog. material containing pyrazolone magenta coupler and,

increased color d.)

L58 ANSWER 41 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1983:584961 HCAPLUS
 DOCUMENT NUMBER: 99:184961
 TITLE: Processing of silver halide color
 photographic materials
 PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
	-----	-----	-----	-----
	JP 58120250	A2	19830718	JP 1982-1782

1982

0111	JP 03015733	B4	19910301	JP 1982-1782
PRIORITY APPLN. INFO.:				

1982

0111

AB A continuous processing method for Ag halide color photog. materials employs a developing solution containing ≥ 0.007 mol/L of Br-, ≥ 0.1 g/L of a polymer or copolymer (average mol. weight 1000-7000) having a pyrrolidone ring unit, and p-phenylenediamine as a color developer. The method suppresses fluctuation of photog. properties (especially increase in the characteristic curve's

slope, γ) due to a continuous processing involving changes in the composition of the processing solution. Thus, a color photog. paper was wedge-exposed, processed by a color developer composed of hydroxylamine sulfate 2, 1-hydroxyethylidene-1,1'-disulfonic acid 0.5, MgCl₂ 0.2, hydroxyiminodiacetic acid 3, 3-methyl-4-amino-N-ethyl-N-(β -methanesulfonamidoethyl) aniline sulfate 4.8, K₂CO₃ 30, K₂SO₃ 4.2, KCl 0.5, KOH 2.5, and

poly(vinylpyrrolidone) (I) 5 g/L H₂O (pH 10.2), **bleach-fixed**, and dried to give a color image with γ values for blue, green, and red densities which did not substantially vary with the contents of KBr and Na₂S₂O₃ added in the developer **composition**, whereas a control solution without I gave increased γ values with increased content of KBr and Na₂S₂O₃.

IT 9003-39-8 66097-43-6 87340-01-0
87340-02-1

(color photog. developer solution containing, with improved stability

over continuous processing time)

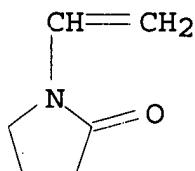
RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C₆ H₉ N O



RN 66097-43-6 HCPLUS

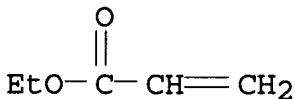
CN 2-Propenoic acid, ethyl ester, polymer with 2-aminoethanol 2-propenoate (salt) and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

NAME)

CM 1

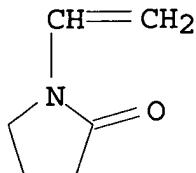
CRN 140-88-5

CMF C₅ H₈ O₂



CM 2

CRN 88-12-0
 CMF C6 H9 N O



CM 3

CRN 33090-06-1
 CMF C3 H4 O2 . C2 H7 N O

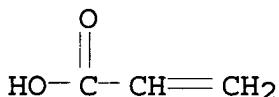
CM 4

CRN 141-43-5
 CMF C2 H7 N O

H₂N—CH₂—CH₂—OH

CM 5

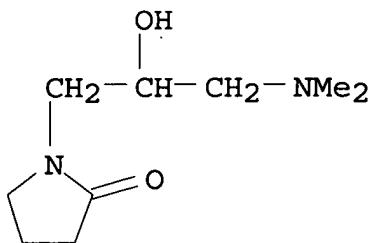
CRN 79-10-7
 CMF C3 H4 O2



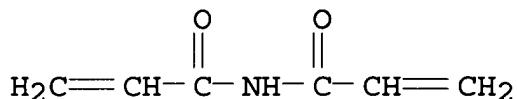
RN 87340-01-0 HCPLUS
 CN 2-Propenamide, N-(1-oxo-2-propenyl)-, polymer with
 1-[3-(dimethylamino)-2-hydroxypropyl]-2-pyrrolidinone (9CI) (CA
 INDEX NAME)

CM 1

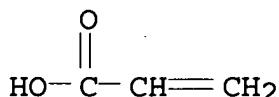
CRN 87340-00-9
 CMF C9 H18 N2 O2



CM 2

CRN 20602-80-6
CMF C6 H7 N O2RN 87340-02-1 HCPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(2-oxo-1-pyrrolidinyl)ethyl ester,
polymer with sodium 2-propenoate (9CI) (CA INDEX NAME)

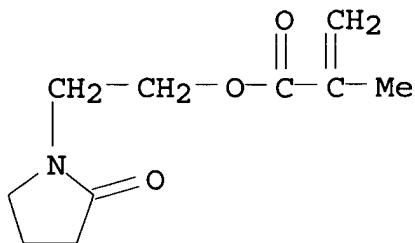
CM 1

CRN 7446-81-3
CMF C3 H4 O2 . Na

● Na

CM 2

CRN 946-25-8
CMF C10 H15 N O3



IC G03C007-30

CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other Reprographic Processes)IT 92-65-9 7207-43-4 7758-02-3, uses and miscellaneous
7758-29-4 7772-98-7 9003-39-8 10039-54-0
66097-43-6 87339-37-5 87339-38-6 87340-01-0
87340-02-1(color photog. developer solution containing, with improved
stability
over continuous processing time)

L58 ANSWER 42 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:549515 HCPLUS

DOCUMENT NUMBER: 99:149515

TITLE: Method for processing silver halide
photographic materials

PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----
-----	-----	-----	-----
JP 58121036	A2	19830719	JP 1982-2787

1982

0113

JP 02033141 B4 19900725 PRIORITY APPLN. INFO.: JP 1982-2787

1982

0113

AB Ag halide color photog. materials are developed in a continuous process with a developing solution containing a polymer or copolymer

(≥ 0.1 g/L) with an average mol. weight of 1000-70,000 having pyrrolidone moieties, poly(ethylene glycol) (≥ 0.5 g/L) with an average mol. weight of 600-6000, and a p-phenylenediamine type developer. Changes in the composition of developing solns. and their photog. performance during continuous process are minimized by this development procedure. Thus, a color printing paper was wedge-exposed, developed with a solution containing poly(N-vinyl-2-pyrrolidone) (PVP K-15, General Aniline & film), poly(ethylene glycol) (Carbowax 1540), and 3-methyl-4-amino-N-(β -methanesulfonamidoethyl)aniline sulfuric acid salt (developer), and bleach-fixed to give gamma values, at optical d. of 0.8-1.8, of 3.16, 3.33, and 3.46 for blue, green, and red images, resp.

IT 9003-39-8 66097-43-6 87340-01-0

(in photog. developer solution for continuous processing)

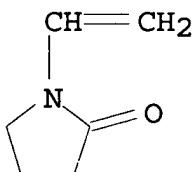
RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



RN 66097-43-6 HCPLUS

CN 2-Propenoic acid, ethyl ester, polymer with 2-aminoethanol 2-propenoate (salt) and 1-ethenyl-2-pyrrolidinone (9CI) (CA

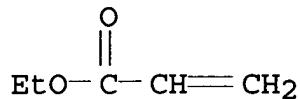
INDEX

NAME)

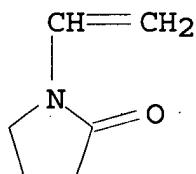
CM 1

CRN 140-88-5

CMF C5 H8 O2



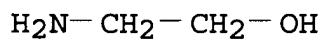
CM 2

CRN 88-12-0
CMF C6 H9 N O

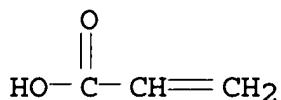
CM 3

CRN 33090-06-1
CMF C3 H4 O2 . C2 H7 N O

CM 4

CRN 141-43-5
CMF C2 H7 N O

CM 5

CRN 79-10-7
CMF C3 H4 O2

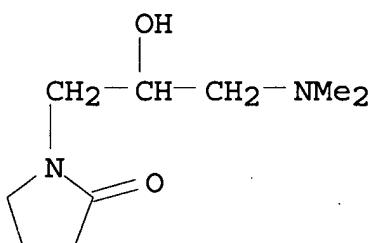
RN 87340-01-0 HCAPLUS

CN 2-Propenamide, N-(1-oxo-2-propenyl)-, polymer with
1-[3-(dimethylamino)-2-hydroxypropyl]-2-pyrrolidinone (9CI) (CA
INDEX NAME)

CM 1

CRN 87340-00-9

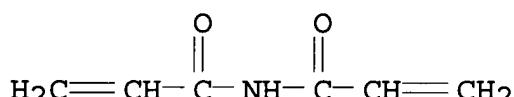
CMF C9 H18 N2 O2



CM 2

CRN 20602-80-6

CMF C6 H7 N O2



IC G03C007-30

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

IT 92-65-9 7207-43-4 9003-39-8 25322-68-3
66097-43-6 87340-01-0

(in photog. developer solution for continuous processing)

L58 ANSWER 43 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:531290 HCAPLUS

DOCUMENT NUMBER: 99:131290

TITLE: Formation of dye image

INVENTOR(S): Kajiwara, Makoto; Onodera, Kaoru

PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd. , Japan

SOURCE: Eur. Pat. Appl., 45 pp.

DOCUMENT TYPE: CODEN: EPXXDW
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 1

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
	EP 80896	A2	19830608	EP 1982-306367

1982

1130

EP 80896	A3	19830720
EP 80896	B1	19860813
EP 80896	B2	19910724
R: DE, FR, GB		
JP 58095345	A2	19830606
		JP 1981-193443

1981

1201

JP 04036375	B4	19920616
US 4565774	A	19860121
		US 1984-662264

1984

1018

PRIORITY APPLN. INFO.: JP 1981-193443 A

1981

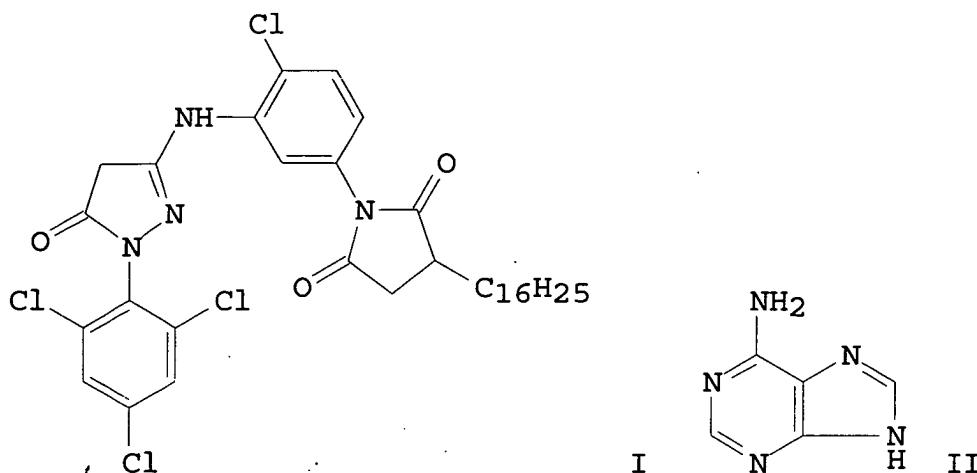
1201

US 1982-443237 A1

1982

1122

GI



AB A color photog. material containing a high-chloride Ag halide-containing

layer provides dye images of excellent color reproduction when developed in Br-free developer ($\text{pH} \geq 9.5$) containing p-phenylenediamine color developer and a fog restrainer having an acid dissoln. constant $\leq 1 + 10^{-8}$ and a solubility product with Ag $\leq 1 + 10^{-10}$. Thus, a photog. support was coated with a green-sensitive AgCl emulsion (average crystal size 0.6

μ , Ag equivalent 3.5 mg) containing a magenta coupler I, overcoated

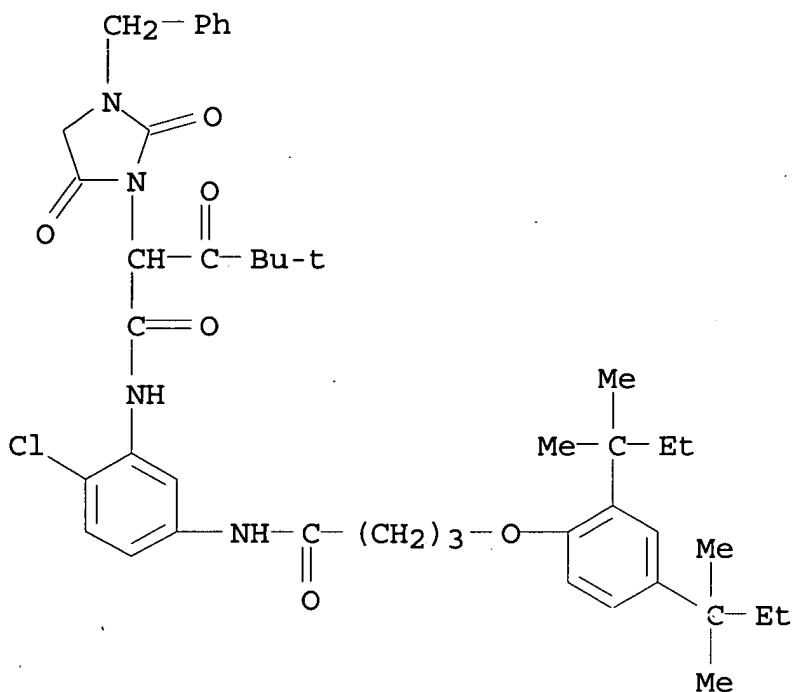
with a gelatin layer, imagewise exposed, developed 30s (at 33°) in a solution containing ethylene glycol 12, benzyl alc. 12, K₂CO₃ 30, K₂SO₃ 2, N-ethyl-N-(β -methanesulfonamide)ethyl-3-methyl-4-aminoaniline sulfate 4.5 g, H₂O to 1 L ($\text{pH} = 10.7$ adjusted with KOH or H₂SO₄), II 0.02, NaCl 1 g/L, **bleach** -fixed in a **composition** containing (NH₄)₂S₂O₈ 100, K₂SO₃ 5, Na-Fe salt of EDTA 40, EDTA 4g, H₂O to 1 L, to give an image with Dmax and Dmin 2.8 and 0.02 resp.

IT 55697-63-7 86774-39-2

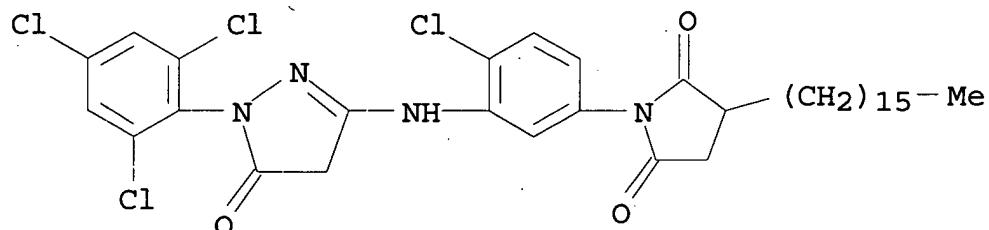
(photog. color material with high-chloride silver halide emulsion and, developer **composition** for)

RN 55697-63-7 HCAPLUS

CN 1-Imidazolidineacetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]- α -(2,2-dimethyl-1-oxopropyl)-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 86774-39-2 HCPLUS

CN 2,5-Pyrrolidinedione, 1-[4-chloro-3-[[4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-3-yl]amino]phenyl]-3-hexadecyl- (9CI)
(CA INDEX NAME)

IC G03C007-30

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 31037-84-0 55697-63-7 86774-39-2
(photog. color material with high-chloride silver halide emulsion and, developer composition for)L58 ANSWER 44 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:458190 HCPLUS

DOCUMENT NUMBER: 93:58190
 TITLE: Bleach-fix sheet
 INVENTOR(S): Popp, Gerhard; Saturno, Patrick Henry;
 Stephen, Keith Henry
 PATENT ASSIGNEE(S): Eastman Kodak Co., USA
 SOURCE: Eur. Pat. Appl., 34 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

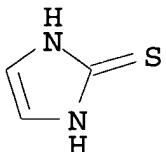
	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE				
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	-----	-----	-----	-----
	EP 8144	A1	19800220	EP 1979-200423
1979				
0730	EP 8144 R: DE, GB US 4256826	B1 A	19831026 19810317	US 1978-933399
1978				
0814	CA 1121643	A1	19820413	CA 1979-332380
1979				
0723	JP 55028098	A2	19800228	JP 1979-102860
1979				
0814	JP 63026376 FR 2433775	B4 A1	19880530 19800314	FR 1979-20642
1979				
0814	FR 2433775	B1	19821022	
PRIORITY APPLN. INFO.:				US 1978-933399 A
1978				

0814

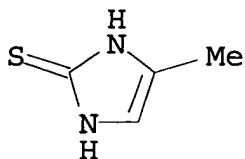
AB A **bleach-fix** dry cover sheet for use in rapid access color photog. in combination with an element containing a Ag image and color-providing material consists of a support coated with a layer or layers containing H₂O-soluble metal Ag bleaching agent, a Ag salt fixing agent, and a hydrophilic binder having a swelling rate T_{1/2} >5 s. Thus, a poly(ethylene terephthalate) support coated with a 1st layer containing 5-(2-hydroxyethyl)tetrahydro-s-triazine-2(1H)thione 84.2 and gelatin 21.6 g/m² hardened with bis(vinylsulfonylmethyl) ether and a 2nd layer containing n-Bu acrylate-acrylic acid polymer (70% acrylic acid) 16.2 and 2,5-dinitrobenzoic acid 4.58 g/m² was laminated with films coated by a AgBr emulsion with aqueous alkaline activator spread between them. The fixing time for 5.4 g/m² Ag halide was 100 s, and the bleaching times (using predeveloped samples of film containing 1.08, 2.16, 5.4 g/m² of developed Ag) were 15, 40, and 200 s, resp.

IT 872-35-5 3247-70-9 13416-32-5
 24684-03-5
 (color photog. dry **bleach-fixing** sheets containing)

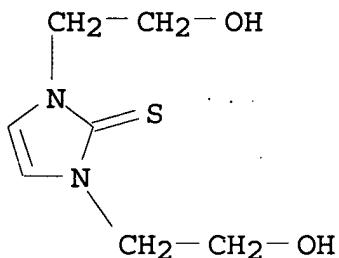
RN 872-35-5 HCPLUS
 CN 2H-Imidazole-2-thione, 1,3-dihydro- (9CI) (CA INDEX NAME)



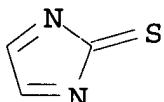
RN 3247-70-9 HCPLUS
 CN 2H-Imidazole-2-thione, 1,3-dihydro-4-methyl- (9CI) (CA INDEX NAME)



RN 13416-32-5 HCPLUS
 CN 2H-Imidazole-2-thione, 1,3-dihydro-1,3-bis(2-hydroxyethyl)- (9CI)
 (CA INDEX NAME)



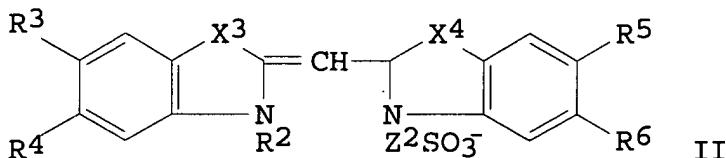
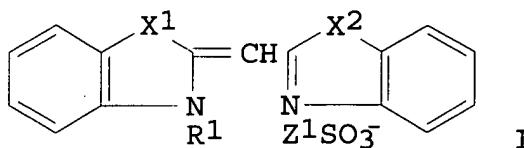
RN 24684-03-5 HCPLUS
 CN 2H-Imidazole-2-thione (7CI, 8CI, 9CI) (CA INDEX NAME)



IC G03C005-44; G03C007-42
 CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic Processes)
 ST **bleach fix** dry color photog
 IT Photographic processing
 (color, dry **bleach-fixing** sheets for)
 IT 25119-83-9
 (binder, for **bleach-fixing** compns
 . for dry color photog. processing sheets)
 IT 62-55-5 89-02-1 99-34-3 485-47-2 527-31-1 528-45-0
 606-23-5 610-28-6 610-30-0 **872-35-5** 877-19-0
3247-70-9 5244-34-8 **13416-32-5** 13431-10-2
 18653-47-9 **24684-03-5** 26957-73-3 71369-45-4
 (color photog. dry **bleach-fixing** sheets
 containing)

L58 ANSWER 45 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1979:430431 HCAPLUS
 DOCUMENT NUMBER: 91:30431
 TITLE: Super-sensitized silver halide photosensitive material
 AUTHOR(S): Anon.
 CORPORATE SOURCE: UK
 SOURCE: Research Disclosure (1979), 179, 110-11 (No. 17903)
 CODEN: RSDBS; ISSN: 0374-4353
 DOCUMENT TYPE: Journal; Patent
 LANGUAGE: English
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
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RD 179003		19790310	
PRIORITY APPLN. INFO.:			RD 1979-179003
19790310			
GI			



AB A Ag halide photog. emulsion is supersensitized by incorporating a sensitizing dye having the general formula I in combination with ≥ 1 sensitizing dye having the general formula II [R1, R2 = allyl, alkyl; R3-R6 = H, halo, alkyl, aryl, OH, alkoxy but not all. R3-R6 represent H at the same time; X1, X2 = S, Se, and ≥ 1 of X1 and X2 = Se; X3, X4 = S, Se; Z1, Z2 = alkylene] into the

emulsions. The total amount of the sensitizing dyes I + II is preferably in the range of from 1 + 10-5 to 5 + 10-4 mol/mol Ag halide. The mol ratio of I to II is in the range of from 1:10 to 10:1. When a Ag halide photog. emulsion contains I, II, and a yellow photog. coupler, not only the supersensitizing effect can be obtained but also the change in photosensitivity of the emulsion when stored at high temperature can be effectively lessened. Thus, a Ag(Br,Cl) emulsion (AgCl:AgBr = 15:85 mol ratio; 0.25 mol Ag halide/kg emulsion) containing

4-hydroxy-6-methyl-

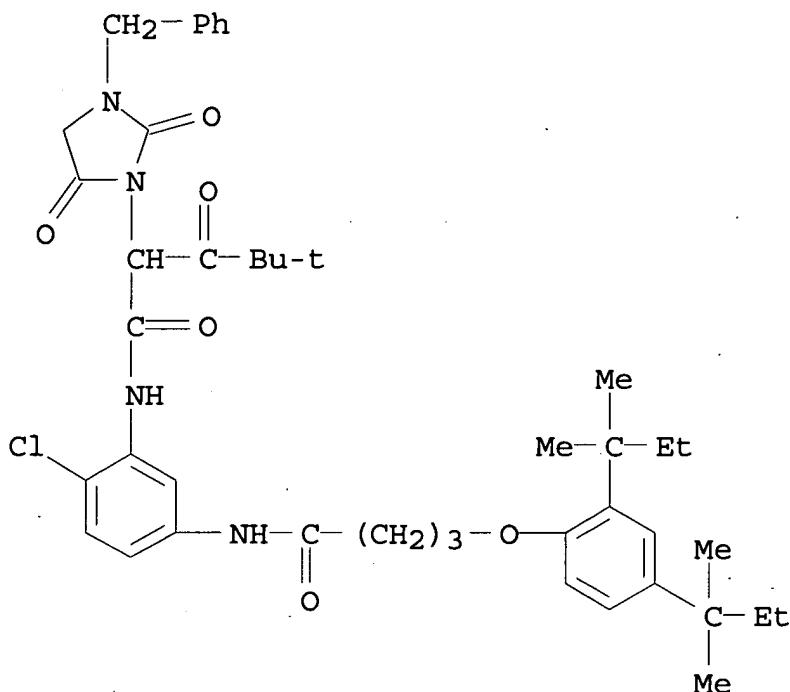
1,3,3a,7-tetraazaindene, α -(1-benzyl-2,4-dioxo-3-imidazolidinyl)- α -pivaloyl-2-chloro-5-[γ -(2,4-di-tert-amylphenoxy)butyramido]acetanilide (a yellow coupler), anhydro-3,3'-bis(3-sulfopropyl)selenacyanine hydroxide Na salt (III) 1 + 10-4, and anhydro-5-methoxy-5'-methyl-3,3-bis(3-sulfopropyl)selenacyanine hydroxide Na salt (IV) 1 + 10-4 mol/mol Ag halide was coated on a polyethylene-coated paper support, exposed to light through a optical wedge, developed, and **bleach-fixed** to show a relative sensitivity of 140 and a fog of 0.07 vs. 100 and 0.06, resp., for a control containing only III (2.5 + 10-4 mol/mol Ag halide) and 120 and 0.07, resp., for a control containing only IV (2.5 + 10-4 mol/mol Ag halide).

IT **55697-63-7**

(photog. yellow coupler, for silver halide photog. emulsions supersensitized by selenacyanine dye mixts.)

RN 55697-63-7 HCPLUS

CN 1-Imidazolidineacetamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]- α -(2,2-dimethyl-1-oxopropyl)-2,5-dioxo-3-(phenylmethyl)- (9CI) (CA INDEX NAME)



CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT 55425-27-9 70679-42-4 70679-43-5 70679-44-6
(photog. supersensitizing compns. containing selenacyanine dye and, for silver halide photog. emulsions containing yellow coupler)

IT 55697-63-7
(photog. yellow coupler, for silver halide photog. emulsions supersensitized by selenacyanine dye mixts.)

L58 ANSWER 46 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:195585 HCPLUS

DOCUMENT NUMBER: 90:195585

TITLE: Silver halide color photographic photosensitive materials

INVENTOR(S): Kaneda, Eiji; Ito, Noboru; Ikeda, Hiroshi; Iwata, Tamotsu

PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	-----	-----	-----
	JP 53147529	A2	19781222	JP 1977-61891

1977

0527

PRIORITY APPLN. INFO.:

JP 1977-61891

A

1977

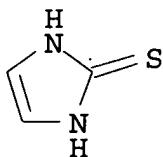
0527

AB Ag halide color photog. materials contain in photoinsensitive layer(s) a Ag removal promoting agent selected from a mercaptotriazole, mercaptothiadiazole, mercaptoimidazole, mercaptoimidazoline, or a mercaptotetrazole. The mercapto compds. may have substituents selected from alkyl, alkylamino, acylamino, alkylmercapto, aryl, or halo groups. Thus, a photog. paper support was coated with a blue-sensitive emulsion containing a yellow coupler, and coated with a gelatin protective coating composition containing 3-mercaptop-4H-1,2,4-triazole (I) (3 mg/m²) to give a blue-sensitive paper. The photog. paper was then sensitometrically exposed, color developed, and bleach-fixed (4 min) in a solution containing the Fe(III) salt of EDTA, EDTA di-Na salt, (NH₄)₂S₂O₃, Na₂SO₃, NaHSO₃, and Na₂HPO₄ to give a relative sensitivity and a fog of 96 and 0.05, resp., vs. 100 and 0.03 for a I-free control and 70 and 0.25 for a 2nd control containing I in the emulsion layer.

IT 872-35-5 70253-96-2 70253-97-3
 (photog. silver removal promoting agent)

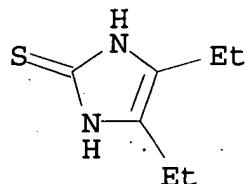
RN 872-35-5 HCAPLUS

CN 2H-Imidazole-2-thione, 1,3-dihydro- (9CI) (CA INDEX NAME)

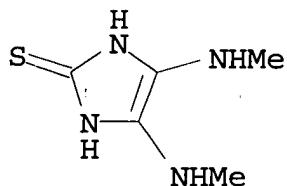


RN 70253-96-2 HCPLUS

CN 2H-Imidazole-2-thione, 4,5-diethyl-1,3-dihydro- (9CI) (CA INDEX NAME)



RN 70253-97-3 HCPLUS

CN 2H-Imidazole-2-thione, 1,3-dihydro-4,5-bis(methylamino)- (9CI)
(CA INDEX NAME)

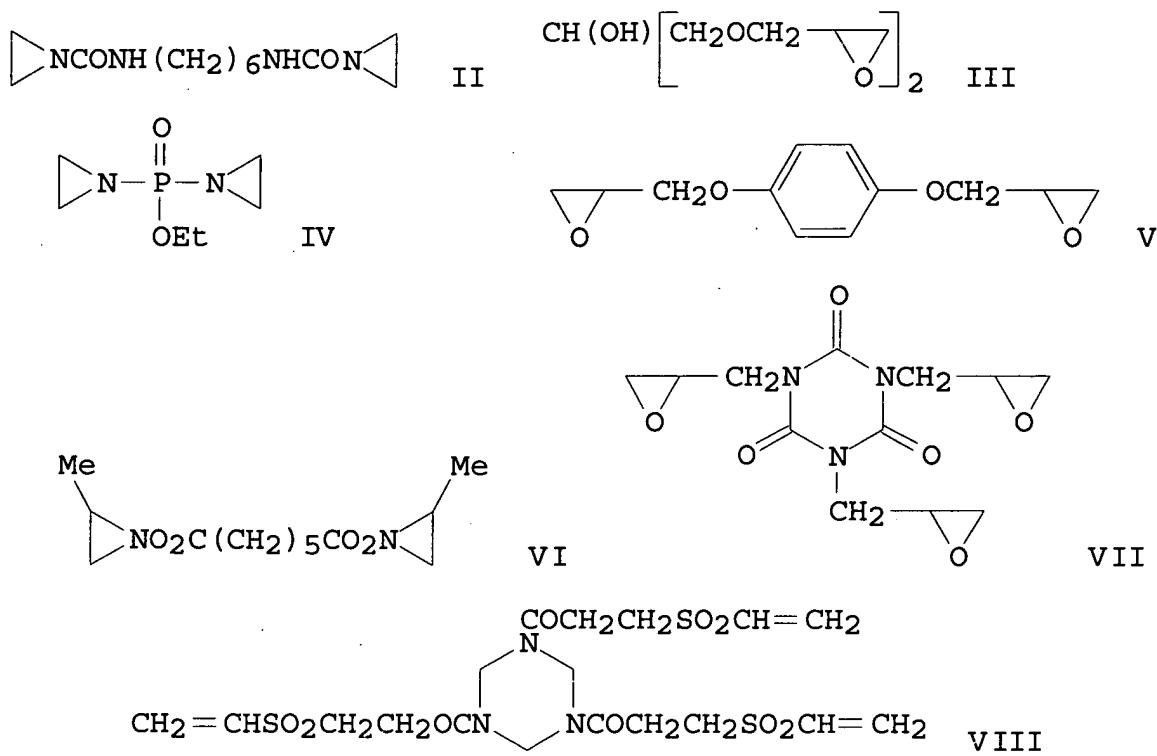
IC G03C007-20

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic Processes)IT Photographic processing
(mercapto group-containing compds. as bleach-fixing promoters for)IT Photographic paper
(color, containing bleach-fixing promoting agent)IT 96-45-7 872-35-5 3179-31-5 10583-83-2 16099-65-3
18686-81-2 18686-82-3 27105-98-2 27106-00-9 37663-51-7
42047-30-3 56751-66-7 70253-93-9 70253-94-0 70253-95-1
70253-96-2 70253-97-3 70253-98-4 70253-99-5

(photog. silver removal promoting agent)

L58 ANSWER 47 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1978:520789 HCAPLUS
 DOCUMENT NUMBER: 89:120789
 TITLE: Color photographic materials for high-speed processing
 INVENTOR(S): Miyazawa, Sadayuki; Ueda, Fumizo
 PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
	-----	-----	-----	-----
	JP 52148124	A2	19771209	JP 1976-64906
1976				
0603	JP 54026890	B4	19790906	JP 1976-64906 A
1976				
0603				
GI				



AB Multilayer color photog. materials (containing a 5-pyrazolone-type

coupler) amenable to rapid processing by using a single-bath **bleach-fixing** bath containing an Fe salt of an aminopolycarboxylic acid are obtained by incorporating a mixture of

3 types of hardening agents in the emulsion layers. Typical combinations of these hardeners are:

CH₂:CHSO₂CH₂CH₂CONHCH₂CH₂NHCO

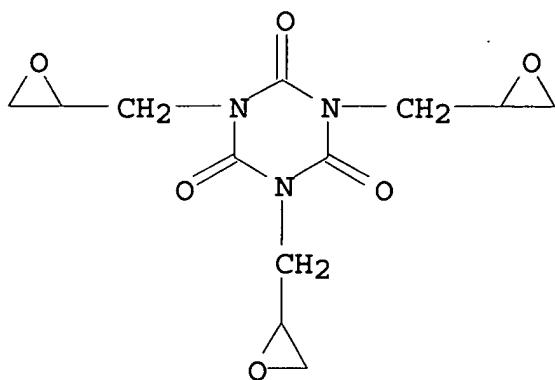
CH₂CH₂SO₂CH:CH₂ (I), II, III; I, IV, V; I, VI, VII; and VIII, IV, V. These photog. materials have good hardening properties even when the emulsion layers are coated on the supports after aging (40°, 24 h).

IT 2451-62-9

(photog. hardening **compns.** containing)

RN 2451-62-9 HCPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione,
1,3,5-tris(oxiranylmethyl)-
(9CI) (CA INDEX NAME)



IC G03C007-26
 CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic Processes)
 IT Photographic hardening agents
 (compns. containing triazine derivs., ethylene oxide
 derivs. and aziridine derivs. for)
 IT 469-35-2 2271-93-4 2425-01-6 **2451-62-9** 3568-29-4
 53132-15-3 66723-68-0 67326-55-0
 (photog. hardening **compns.** containing)

L58 ANSWER 48 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1978:434122 HCPLUS
 DOCUMENT NUMBER: 89:34122
 TITLE: Hardening agents for color photographic
 materials for single bath **bleach-**
 fix processing
 INVENTOR(S): Miyazawa, Sadayuki; Ueda, Fumizo; Oka, Shoji
 PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
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JP 52149121	A2	19771212	JP 1976-65417

1976

0604

PRIORITY APPLN. INFO.:

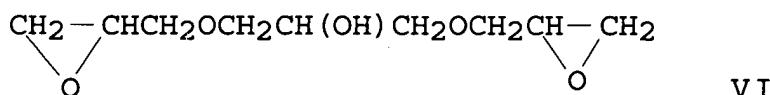
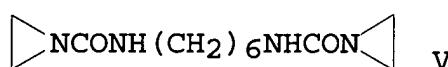
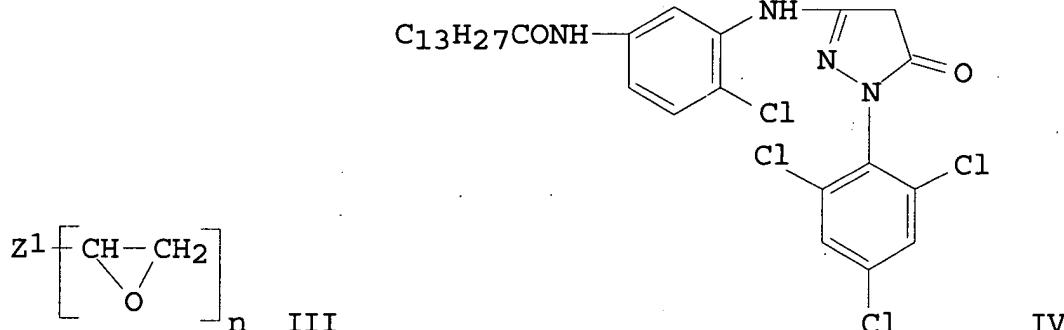
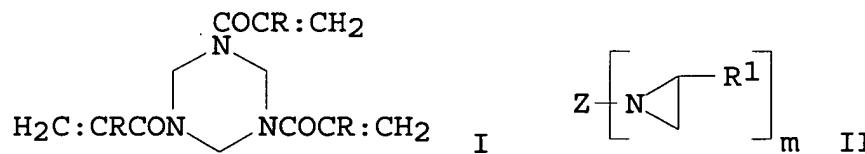
JP 1976-65417

A

1976

0604

GI



AB A mixture of ≥ 1 compound of the formula I ($R = H$, halogen) with ≥ 1 compound of the formula II ($R1 = H$, Me; $Z = \text{polyvalent moiety}; m \geq 2$) is used as the hardening agent for a Ag halide color photog. paper having a corona discharge-treated polyolefin-laminated paper support and a Ag halide emulsion layer containing a 5-pyrazolone derivative magenta coupler.

Optionally,

≥ 1 compound of the formula III ($Z1 = \text{multivalent moiety}; n \geq 2$) may also be added to the above mixture. Thus, in preparing a color photog. paper having (1) a corona discharge-treated

polyethylene-laminated paper support, (2) a blue-sensitive Ag(Br,Cl) emulsion layer containing a yellow coupler, (3) a gelatin

intermediate layer, (4) a green-sensitive Ag(Cl,Br) emulsion layer

containing a magenta coupler IV, (5) a UV-absorber-containing gelatin

intermediate layer, (6) a red-sensitive Ag(Cl,Br) emulsion layer containing a cyan coupler, and (7) a protective gelatin layer, a mixture

of I ($R = H$) 0.02, V 0.04, and VI 0.04 mmol/g-gelatin was added to

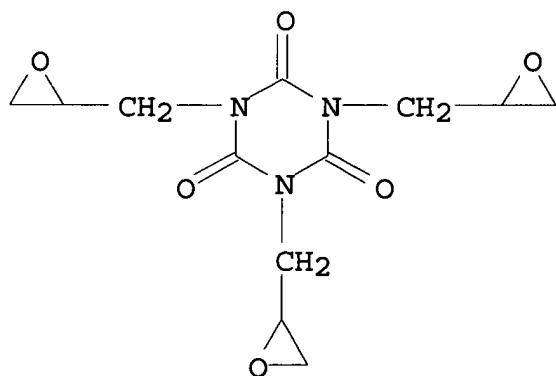
each layer of the photog. paper as the hardener. Good mech. strength of the emulsion layers was obtained without decreasing color image ds. significantly.

IT 2451-62-9

(photog. hardening composition containing, for color photog. paper)

RN 2451-62-9 HCPLUS

CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione,
1,3,5-tris(oxiranylmethyl)-
(9CI) (CA INDEX NAME)



IC G03C007-26

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT 469-35-2 959-52-4 2271-93-4 2425-01-6 2451-62-9

3568-29-4 66723-67-9 66723-68-0

(photog. hardening composition containing, for color photog. paper)

L58 ANSWER 49 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1978:201026 HCPLUS

DOCUMENT NUMBER: 88:201026
 TITLE: Processing of silver halide color
 photographic materials
 INVENTOR(S): Sakamoto, Yoshiro; Fushiki, Isamu; Koboshi,
 Shigeharu; Wakameda, Tadao
 PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
JP 52138931	A2	19771119	JP 1976-55511

1976

0515

JP 60010303	B4	19850316	JP 1976-55511	A
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1976

0515

AB Exposed Ag halide color photog. materials are developed, **bleach-fixed** in a solution containing a metal-organic acid complex salt ≤ 0.01 and $\text{Br}^- \leq 3 \text{ mol/L}$ (or $\text{I}^- \geq 1.3 \text{ mol/L}$), and subsequently treated in a solution (either a fixing solution or **bleach-fix** solution) containing a pyrrolidone ring-containing polymer and $\text{Br}^- \geq 3 \text{ mol/L}$ (or $\text{I}^- \geq 1.3 \text{ mol/L}$). The **bleach-fix** solns. have a good service life and good reprocessability, and waste solns. from the **bleach-fix** solns. have a small BOD and COD and do not contain toxic substances. The pyrrolidone-ring containing polymer solution (called the precipitation-deposition inhibiting bath) prevents the precipitation of undesirable **solids** on the photog. materials during the processing, and hence improves the color of the processed materials. Thus, color reversal Ag halide photog. films (3.5 cm width and 1 m length) having red,

green, and blue sensitive emulsion layers (2.0 g Ag/m² for each layer) were sensitometrically exposed, prehardened, neutralized, developed, fixed, washed, color developed, stopped, washed, **bleach-fixed** in a solution containing EDTA Fe(III)-NH₄ salt 120, EDTA NH₄ salt 5, and NH₄Br 500 g/L, treated in a precipitation-deposition inhibiting bath containing NH₄I 400 and poly(N-vinyl-2-pyrrolidone) 20 g/L, and then washed and stabilized. No precipitation was observed either in the **bleach-fix** bath or the precipitation-deposition inhibiting bath even after processing of ≥15,000 films.

IT 9003-39-8 66097-42-5

(precipitation-deposition inhibiting bath containing ammonium halide and,

for color photog. material processing)

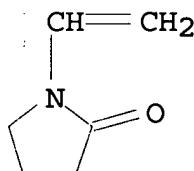
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



RN 66097-42-5 HCAPLUS

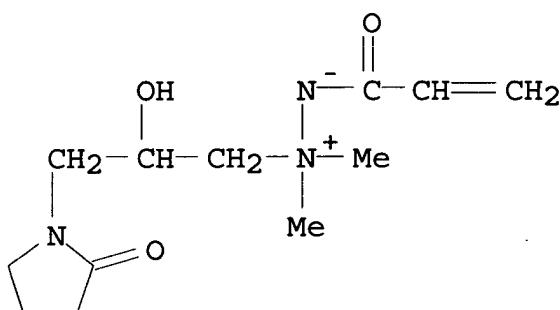
CN Hydrazinium, 1-[2-hydroxy-3-(2-oxo-1-pyrrolidinyl)propyl]-1,1-dimethyl-2-(1-oxo-2-propenyl)-, inner salt, homopolymer (9CI)

(CA INDEX NAME)

CM 1

CRN 66097-41-4

CMF C12 H21 N3 O3



IC G03C005-38

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

ST color photog film processing; bleach fix soln
color photog; pptn deposition inhibition color photogIT Photographic processing
(color, bleach-fix solution and
precipitation-deposition inhibition bath for, pollution-free)IT 21265-50-9
(bleach-fix solution containing ammonium halide
and, for color photog. material)IT 9003-39-8 66097-42-5
(precipitation-deposition inhibiting bath containing ammonium
halide and,
for color photog. material processing)

L58 ANSWER 50 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1978:81781 HCPLUS

DOCUMENT NUMBER: 88:81781

TITLE: Stable free radical nitroxyl bleaching agents
for photographic processes

AUTHOR(S): Ciurca, Samuel J., Jr.; Kohrt, Carl F.

CORPORATE SOURCE: UK

SOURCE: Research Disclosure (1977), 164, 11-13 (No.
16414)DOCUMENT TYPE: CODEN: RSDBSBB; ISSN: 0374-4353
LANGUAGE: Journal; Patent

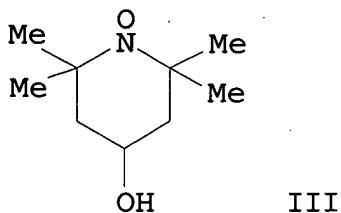
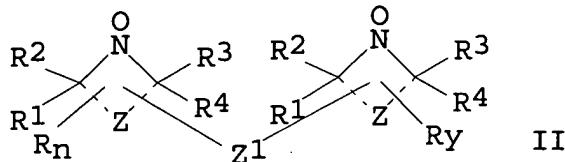
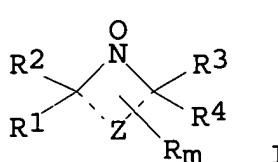
PATENT INFORMATION: English

PATENT NO.	KIND	DATE	APPLICATION NO.
RD 164014		19771210	

PRIORITY APPLN. INFO.:
19771210

RD 1977-164014

GI



AB Stable free-radical nitroxyl compds. I (R = H, amino, alkyl, haloalkyl, aralkyl; R1,R2,R3,R4 = alkyl, cycloalkyl, aralkyl, aryl, or R1R2 or R3R4 form a cycloalkyl or cycloalkenyl group; Z

= the atoms necessary to complete a 5-7 member ring; m = 1-4) and
II

(R, R1,R2,R3,R4, and Z are same as above; Z1 = a divalent group; n,y = 1-4) can be used as bleaching agents in aqueous or nonaq. photog. bleaching solns. and in photothermog. elements. These compds. do not adversely affect the photog. properties of radiation-sensitive emulsions and can be thermally activated in a dry photothermog. process. Thus, a color photog. element was exposed, color-developed, fixed, washed, and dried to give a maximum

d. of Ag and dye. The element was then immersed at 25° in a bleach solution containing

N,N,N',N'-tetraphenyl-p-phenylenediamine

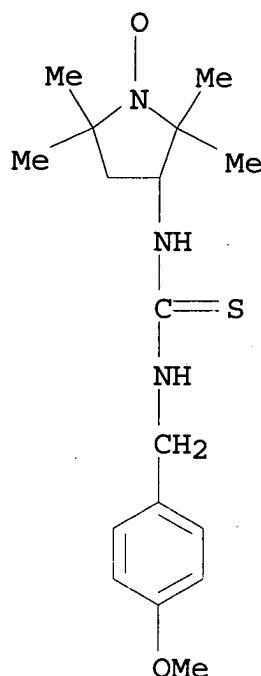
0.0237, III 0.3426 g, and 0.25 N HCl 20.0 mL, fixed for 8 min, washed, and dried to show a bleaching efficiency comparable to a ferricyanide bleaching solution

IT 65501-84-0

(photog. bleach-fixing solns. containing)

RN 65501-84-0 HCAPLUS

CN 1-Pyrrolidinyloxy,
 3-[[[(4-methoxyphenyl)methyl]amino]thioxomethyl
 1]amino]-2,2,5,5-tetramethyl- (9CI) (CA INDEX NAME)



CC 74-2 (Radiation Chemistry, **Photochemistry**, and
Photographic Processes)

IT Photothermography

(photosensitive **compns.** for, containing nitroxyl compds.)

IT 62-56-6, uses and miscellaneous
 (photog. **bleach-fixing compns.**
 containing nitroxyl compds. and)

IT 65501-83-9 65501-84-0
 (photog. **bleach-fixing solns.** containing)

IT 112-85-6 121-98-2 602-09-5 2489-05-6 65501-81-7
 (photothermogr. copying **compns.** containing nitroxyl
 compds. and)

L58 ANSWER 51 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:63493 HCPLUS

DOCUMENT NUMBER: 86:63493

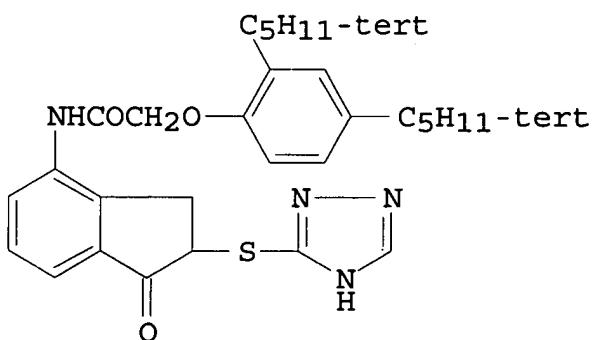
TITLE: Color photographic films

INVENTOR(S): Kikuchi, Shoji; Suto, Ryosuke; Endo, Takaya;
 Kagami, Teruo

PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan

SOURCE: Ger. Offen., 51 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE				
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-----	DE 2547691	A1	19760429	DE 1975-2547691
1975				
1024	JP 51049725	A2	19760430	JP 1974-123105
1974				
1025	FR 2289936	A1	19760528	FR 1975-32754
1975				
1027	FR 2289936	B3	19790914	
PRIORITY APPLN. INFO.:				JP 1974-123105 A
1974				
1025				
GI				



AB The concentration of bleaching or bleach-fixing baths for use in the processing of color photog. materials can be decreased by addition to the color photog. material

of a heterocyclic sulfide that reacts with the oxidized developer to release a bleaching promoter. Some 11 of these compds. are described. Thus, a cellulose triacetate support was coated with 100 mL of a red-sensitive gelatin-Ag(Br,I) emulsion containing I

0.2

and 1-hydroxy-2-[δ -(2,4-di-tert-
amylphenoxy)butyl]naphthamide (cyan coupler) 2.0 g and dried.

The

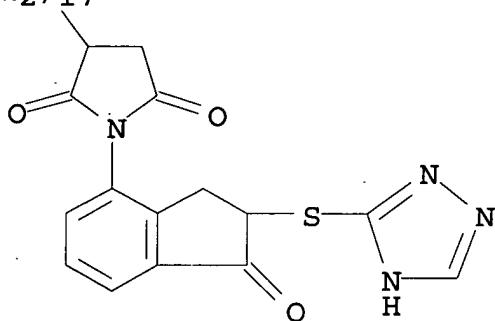
finished material was then exposed by using a step wedge, color developed in a developer containing 4-amino-3-methyl-N-ethyl-N-(β -hydroxyethyl)aniline sulfate, and **bleach-fixed** for 1 min to show a 69% degree of bleaching vs. only 26% for a I-free control.

IT 61631-38-7P 61631-41-2P 61631-47-8P
(preparation of)

RN 61631-38-7 HCAPLUS

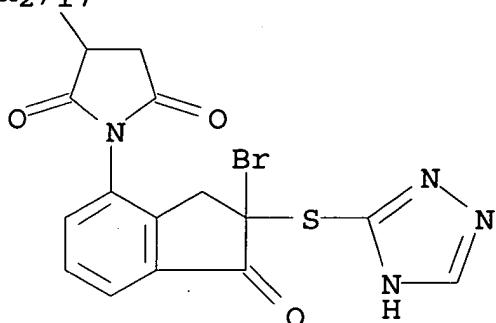
CN 2,5-Pyrrolidinedione, 1-[2,3-dihydro-1-oxo-2-(1H-1,2,4-triazol-3-ylthio)-1H-inden-4-yl]-3-octadecyl- (9CI) (CA INDEX NAME)

Me—(CH₂)₁₇



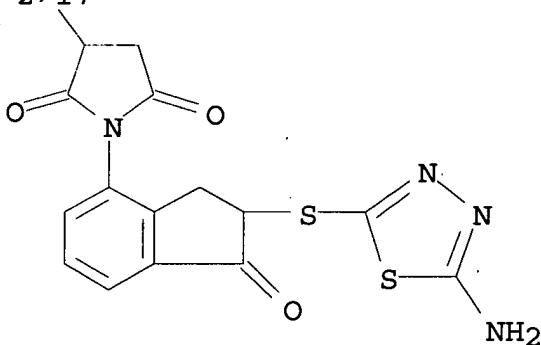
RN 61631-41-2 HCAPLUS

CN 2,5-Pyrrolidinedione, 1-[2-bromo-2,3-dihydro-1-oxo-2-(1H-1,2,4-triazol-3-ylthio)-1H-inden-4-yl]-3-octadecyl- (9CI) (CA INDEX NAME)

Me—(CH₂)₁₇

RN 61631-47-8 HCPLUS

CN 2,5-Pyrrolidinedione, 1-[2-[(5-amino-1,3,4-thiadiazol-2-yl)thio]-2,3-dihydro-1-oxo-1H-inden-4-yl]-3-octadecyl- (9CI) (CA INDEX NAME)

Me—(CH₂)₁₇

IC G03C007-28

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT Photographic processing

(bleaching and bleach-fixing in, heterocyclic sulfides as bleaching promoter-precursors for)

IT 61631-37-6P 61631-38-7P 61631-39-8P 61631-40-1P
61631-41-2P 61631-42-3P 61631-43-4P 61631-44-5P
 61631-45-6P 61631-46-7P **61631-47-8P** 61631-48-9P
 61631-49-0P 61631-50-3P 61631-51-4P 61631-52-5P
 61631-53-6P 61631-54-7P 61631-55-8P 61631-56-9P
 61631-57-0P 61631-58-1P 61631-59-2P
 (preparation of)

L58 ANSWER 52 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1976:412285 HCAPLUS
 DOCUMENT NUMBER: 85:12285
 TITLE: Development of silver halide color photographic films
 INVENTOR(S): Okumura, Akio; Ichijima, Seiji; Shiba, Keisuke; Nakajo, Kiyoshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
	-----	-----	-----	-----
	JP 50104026	A2	19750816	JP 1974-8124

1974

PRIORITY APPLN. INFO.:	JP 1974-8124	A
0116	JP 56045134	B4 19811024

1974

0116

AB Color prints are obtained by exposing a color photog. material containing a yellow coupler in which 1 of the H atoms of the reactive

methylene group is replaced by either a 1-alkylsulfonyl-3-hydantoinyl or a 1-arylsulfonyl-3-hydantoinyl group and then developing with a developer containing a primary aromatic amine color

developer. Since the α -imidoacylacetamido-type coupler of this invention is a 2-equivalent coupler, it requires less Ag halide

in the film than the conventional 4-equivalent coupler and helps to

reduce the cost of the Ag halide photog. film. Moreover, the scattering of light by emulsion grains is reduced, the sharpness of the image is improved, the thickness of the emulsion layer is reduced, and the processing time is shortened. The image produced

is very stable even under severe conditions. Thus, α -(4-methoxybenzoyl)- α -(1-phenylsulfonyl-5,5-dimethyl-3-hydantoinyl)-2-chloro-5-[α -(2,4-di-tert-amylphenoxy)butyramido]acetanilide 66.5 g, di-Bu phthalate 65,

and

EtOAc 130 ml were heated to 40°, and the resultant solution was ball-milled with a solution containing gelatin 65, Na p-dodecylbenzenesulfonate 3.25 g and H₂O to 650 ml. This dispersion was then added to a photog. emulsion (1 kg) containing gelatin 70 and a Ag(Br,I) (AgI 5.0 mole %) mixture 57.1 g. After adding a hardener and adjusting the pH to 6.5, the emulsion was coated (6.2 μ) on a cellulose triacetate support. The film was exposed through a step tablet, then developed with a developer containing 4-amino-3-methyl-N,N-diethylaniline hydrochloride

2.5 g/l., fixed, bleached, rinsed and dried.

The fog value was 0.21, the relative sensitivity was high, the γ -value was 2.82, and the maximum d. was 3.41 (all determined with

blue light). The fog value was extremely low in spite of the very

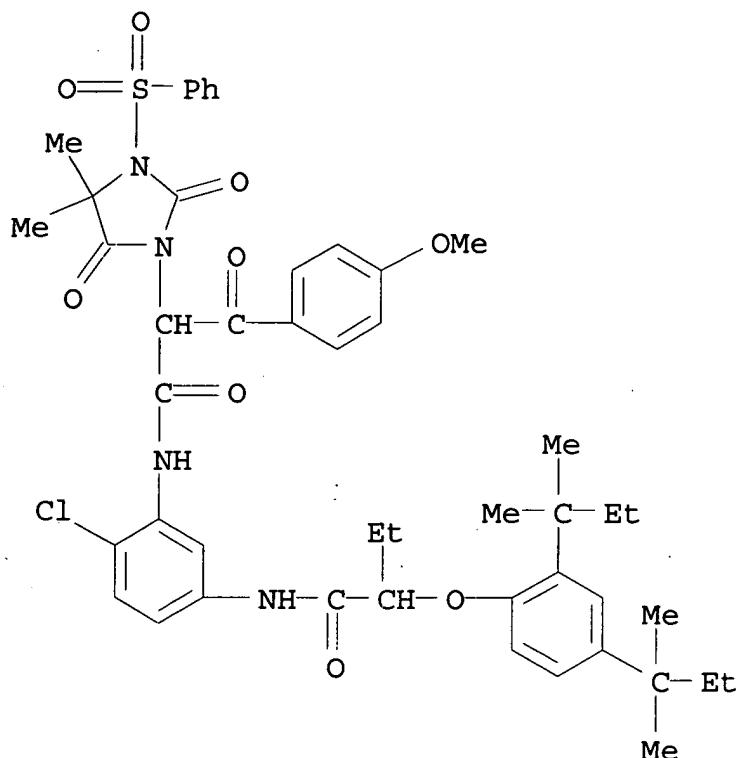
large color forming ability of the coupler.

IT 59262-84-9

(photog. yellow coupler)

RN 59262-84-9 HCPLUS

CN 1-Imidazolidineacetamide, N-[5-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]- α -(4-methoxybenzoyl)-4,4-dimethyl-2,5-dioxo-3-(phenylsulfonyl)-(9CI) (CA INDEX NAME)



IC G03C; C09B

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT 59262-84-9

(photog. yellow coupler)

L58 ANSWER 53 OF 54 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1974:513634 HCAPLUS

DOCUMENT NUMBER: 81:113634

TITLE: Breach-fix solutions containing ferric compounds and imidazole derivatives

INVENTOR(S): Shimamura, Isao; Iwano, Haruhiko

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			

JP 49040943 A2 19740417 JP 1972-84925

1972

0824
PRIORITY APPLN. INFO.: JP 1972-84925 A

1972

0824

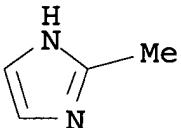
AB Photog. **bleach-fix** solns. contain a ferric complex salt, H₂O-soluble Ag halide fixing agents, and an imidazole derivative (I; R, R₁, R₂, R₃ = H, C₁₋₅ alkyl, C₁₋₅ hydroxyalkyl, alkenyl). The addition of I prevents the precipitation of the ferric complex salt, and thus makes the preparation of highly **concentrated bleach-fix** solution possible. Thus, Na₂SO₃ 10, ferric-EDTA Na salt monohydrate 40, 2-methylimidazole (II) 40,

and NaNH₄S₂O₃ 100 g were dissolved in H₂O and the pH was adjusted to 5.5 (with H₂SO₄ and NaOH) to give 300-ml. **bleach-fix** solution. The reagents were completely dissolved, while some residue was observed in a control without II. The **bleach-fix** solution was diluted to 1 l. and used for processing a conventional color photog. paper; the time required for **bleach-fixing** was 40 sec vs. 60 sec for the control.

IT 693-98-1
(photog. **bleach-fixing** solns. containing ferric EDTA complexes and, for color processing)

RN 693-98-1 HCAPLUS

CN 1H-Imidazole, 2-methyl- (9CI) (CA INDEX NAME)



NCL 103H224; 103F0
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

ST **bleach fix soln photog; imidazole deriv photog processing**
 IT Photographic processing
 (color, **bleach-fixing** solns. containing ferric EDTA complexes and imidazole derivs. for)
 IT Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, iron complex, sodium salt
 Iron, with EDTA, sodium salt
 (photog. **bleach-fixing** solns. containing imidazole derivs. and, for color processing)
 IT **693-98-1**
 (photog. **bleach-fixing** solns. containing ferric EDTA complexes and, for color processing)

L58 ANSWER 54 OF 54 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:134154 HCPLUS

DOCUMENT NUMBER: 76:134154

TITLE: **Compositions** and processes for converting zero valent metal photographic images to formazan dye images

INVENTOR(S): Brault, Albert T.; Bissonette, Vernon L.

PATENT ASSIGNEE(S): Eastman Kodak Co.

SOURCE: U.S., 11 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	---	-----	-----
	-----	-----	-----	-----
	US 3642478	A	19720215	US 1970-14228

1970

0225

FR 2078932	A5	19711105	FR 1971-6041
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1971

0223

BE 763411	A1	19710716	BE 1971-100168
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1971

0224

GB 1333613

A

19731010

GB 1971-22118

1971

0419

PRIORITY APPLN. INFO.:

US 1970-14228

A

1970

0225

GI For diagram(s), see printed CA Issue.

AB Ag images are converted to formazan dye images and the Ag and residual Ag halide removed from the developed photog. element by treating it with a **bleach-fix** solution containing a H₂O-soluble tetrazolium salt, especially of type I, where R₁ and R₃ are Ph,tolyl, hydroxyphenyl, naphthyl, benzosenazolyl, etc., R₂ is any R₁ group or H, OH, Me, Bu, amino, etc., and X- is a halide ion.

The Ag is oxidized and forms removable Ag halide and the I-compound

reduced to a formazan dye. E.g., a black-and-white print obtained

with a Ag(Br, Cl) emulsion was treated for 4 min at 75°F with a solution of pH 7 containing Na₂HPO₄ 10, (NH₄)₂S₂O₃ 200,

thiourea

10, 2,3,5-triphenyl-2H-tetrazolium chloride 10 g, and H₂O to 1 l. to give a formazan dye image of greater d. than the Ag image.

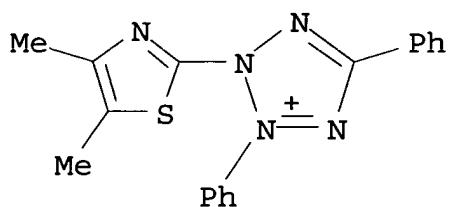
IT 298-93-1 298-96-4 36459-37-7

(photographic **bleaching-fixing** solns.

containing, for converting metal images to formazan dye images)

RN 298-93-1 HCPLUS

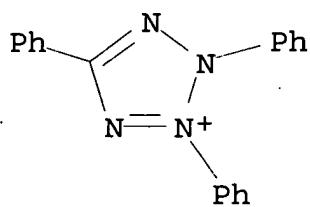
CN 2H-Tetrazolium, 2-(4,5-dimethyl-2-thiazolyl)-3,5-diphenyl-, bromide (8CI, 9CI) (CA INDEX NAME)



● Br^-

RN 298-96-4 HCPLUS

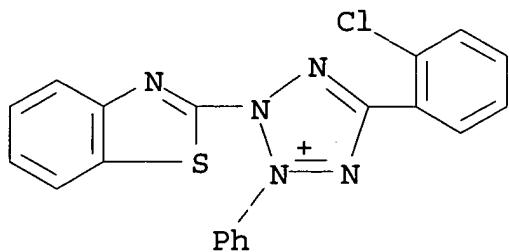
CN 2H-Tetrazolium, 2,3,5-triphenyl-, chloride (8CI, 9CI) (CA INDEX NAME)



● Cl^-

RN 36459-37-7 HCPLUS

CN 2H-Tetrazolium,
2-(2-benzothiazolyl)-5-(2-chlorophenyl)-3-phenyl-,
bromide (9CI) (CA INDEX NAME)



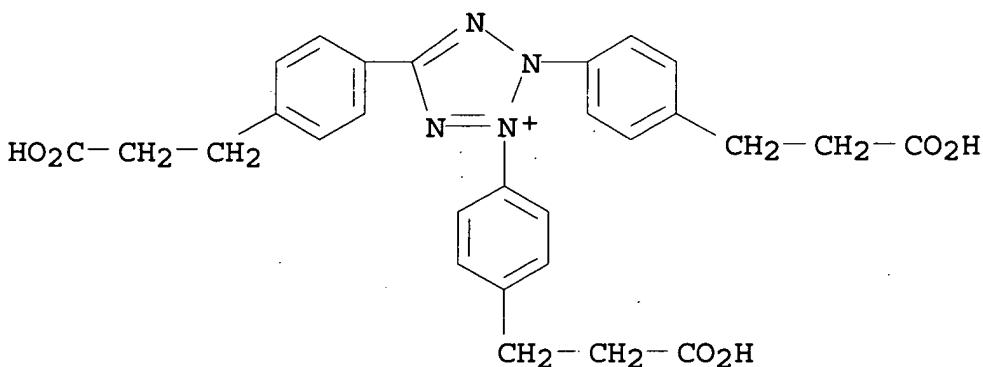
● Br⁻

IT 36459-39-9

(photographic bleaching-fixing solns.
containing, for removing residual silver)

RN 36459-39-9 HCPLUS

CN 2H-Tetrazolium, 2,3,5-tris[4-(2-carboxyethyl)phenyl]-, bromide
(9CI) (CA INDEX NAME)



● Br⁻

IC G03C

NCL 096048000

CC 74 (Radiation Chemistry, Photochemistry, and
Photographic Processes)

ST silver image conversion formazan dye; bleach fix
tetrazolium halide

IT Photographic processing

(bleaching-fixing solns. containing tetrazolium salts for converting metal images to formazan dye images in)
IT 96-45-7 100-51-6
(photographic bleaching-fixing solns.
containing tetrazolium salts and, for converting metal images
to
formazan dye images)
IT 298-93-1 298-93-1 298-96-4
36459-37-7
(photographic bleaching-fixing solns.
containing, for converting metal images to formazan dye
images)
IT 36459-39-9
(photographic bleaching-fixing solns.
containing, for removing residual silver)